PUB.DIE-202

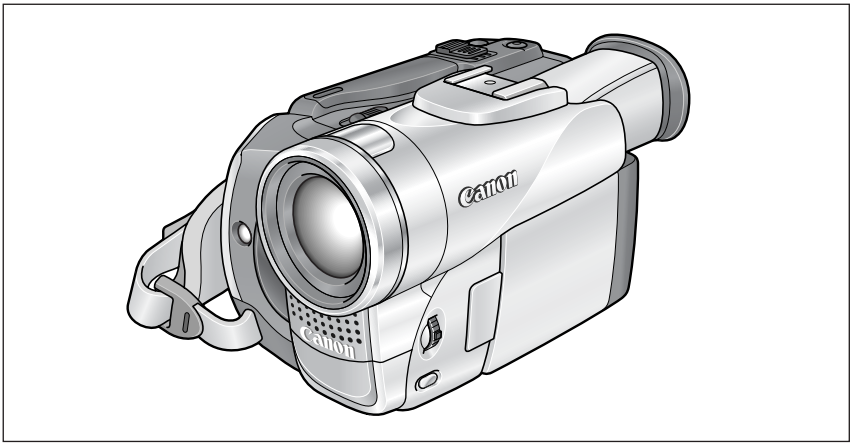
Canon

Digital Video Camcorder

Instruction Manual

English

MVX250i / MVX200i / MVX200



Mini DV Digital Video Cassette

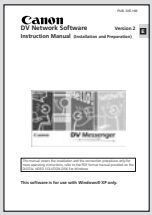
BUBBLE JET DIRECT

DIRECT PRINT

PictBridge

Please read also the following instruction manuals.

- **Digital Video Software**
- **DV Network Software**



Introduction

Basic Functions

Advanced Functions

Editing

Using a Memory Card

Direct Printing

Transferring Images

Additional Information

PAL

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Important Usage Instructions

WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK AND TO REDUCE ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

DISCONNECT THE MAINS PLUG FROM THE SUPPLY SOCKET WHEN NOT IN USE.

CA-570 identification plate is located on the bottom.

- Use of CV-150F/CV-250F DV cable is necessary to comply with the technical requirement of EMC Directive.

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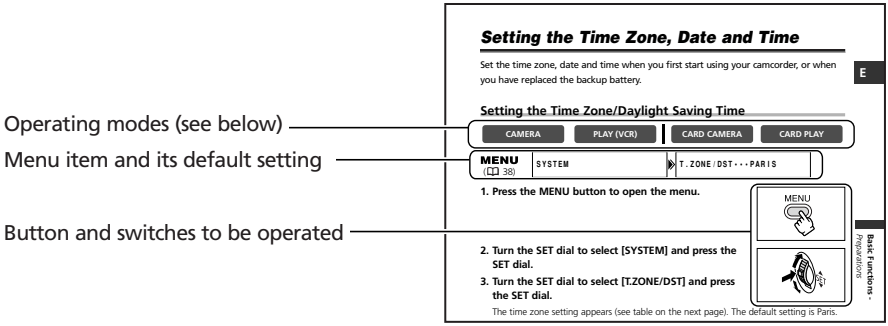
Using this Manual

Thank you for purchasing the Canon MVX250i/MVX200i/MVX200. Please read this manual carefully before you use the camcorder and retain it for future reference.

Change the display language before you begin (📖 75).

Symbols and References Used in This Manual

- ❍ : Precautions related to the camcorder operation.
- ❍ : Additional topics that complement the basic operating procedures.
- ❍ 📖 : Reference page number.
- ❍ Capital letters are used to refer to buttons on the camcorder or the wireless controller.
- ❍ [ ] are used to refer to menu items displayed on the screen.
- ❍ "Screen" refers to the LCD and the viewfinder screen.
- ❍ Please note that the illustrations mainly refer to the MVX250i.


Operating modes (see below)
Menu item and its default setting
Button and switches to be operated
Setting the Time Zone, Date and Time
Set the time zone, date and time when you first start using your camcorder, or when you have replaced the backup battery.
E
Setting the Time Zone/Daylight Saving Time
CAMERA
PLAY (VCR)
CARD CAMERA
CARD PLAY
MENU
SYSTEM
T.ZONE/DST···PARIS
1. Press the MENU button to open the menu.
MENU
2. Turn the SET dial to select [SYSTEM] and press the SET dial.
3. Turn the SET dial to select [T.ZONE/DST] and press the SET dial.
The time zone setting appears (see table on the next page). The default setting is Paris.
Basic Functions - Preparations

Operating Mode	POWER Switch	TAPE/CARD Switch
CAMERA	CAMERA	(TAPE)
PLAY (VCR)	PLAY (VCR)	(TAPE)
CARD CAMERA	CAMERA	(CARD)
CARD PLAY	PLAY (VCR)	(CARD)

CAMERA : Function can be used in this mode.

CAMERA : Function cannot be used in this mode.

Trademark Acknowledgements

- Canon and Bubble Jet are registered trademarks of Canon Inc.
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- SD is a trademark.
- Windows® is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- Macintosh and Mac OS are trademarks of Apple Computer, Inc., registered in the United States and other countries.
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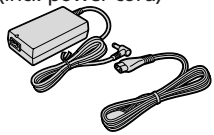
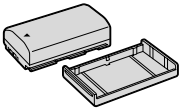
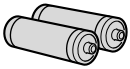
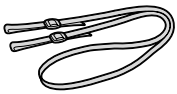
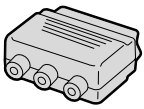
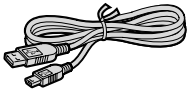
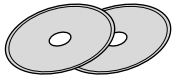
Checking Supplied Accessories

CA-570 Compact Power Adapter (incl. power cord) 	NB-2LH Battery Pack 	Lithium Button Battery CR1616	WL-D83 Wireless Controller
Two AA (R6) Batteries 	Lens Cap and Lens Cap Cord	SS-900 Shoulder Strap 	STV-250N Stereo Video Cable
PC-A10 SCART Adapter* 	IFC-300PCU USB Cable 	SDC-8M SD Memory Card (containing sample images)	DIGITAL VIDEO SOLUTION DISK For Windows For Macintosh 

* Not supplied in Oceania and China.

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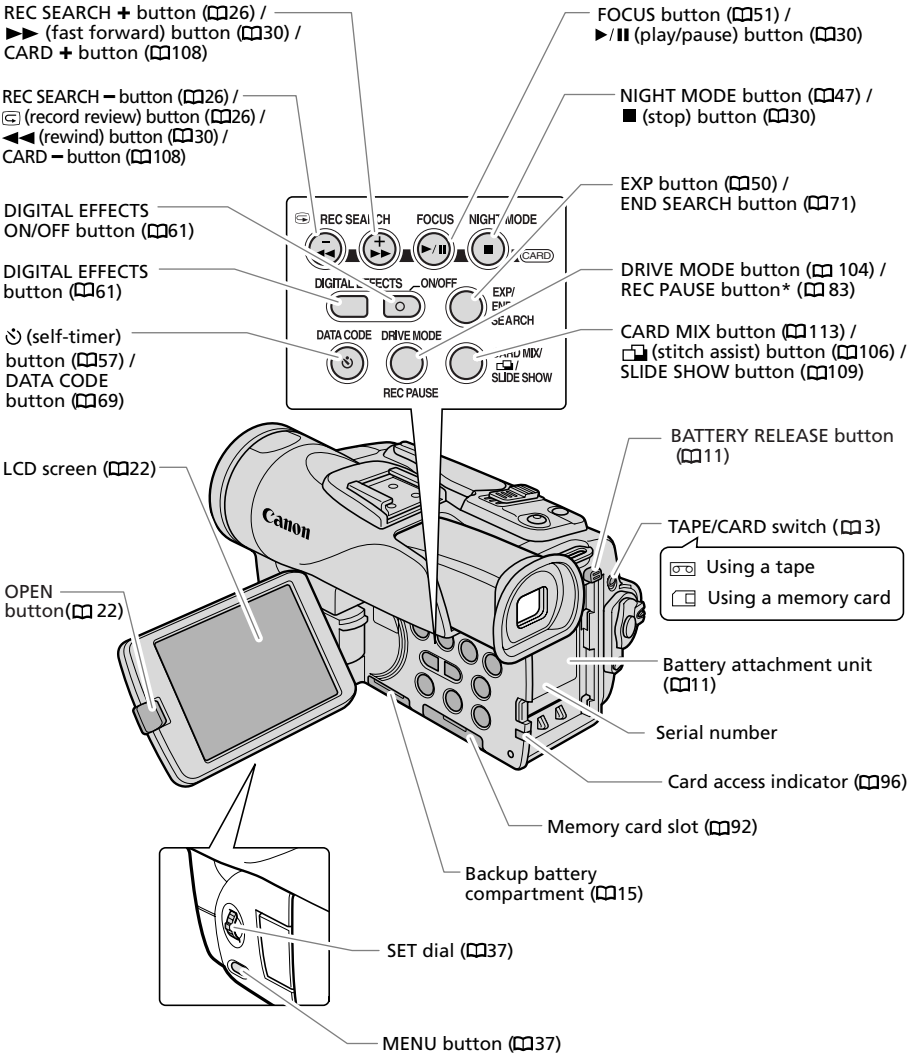
Components Guide

MVX250i/MVX200i/MVX200


REC SEARCH + button (📖26) / ►► (fast forward) button (📖30) / CARD + button (📖108)
REC SEARCH – button (📖26) / (record review) button (📖26) / ◄◄ (rewind) button (📖30) / CARD – button (📖108)
DIGITAL EFFECTS ON/OFF button (📖61)
DIGITAL EFFECTS button (📖61)
(self-timer) button (📖57) / DATA CODE button (📖69)
LCD screen (📖22)
OPEN button(📖 22)
FOCUS button (📖51) / ►/II (play/pause) button (📖30)
NIGHT MODE button (📖47) / ■ (stop) button (📖30)
EXP button (📖50) / END SEARCH button (📖71)
DRIVE MODE button (📖 104) / REC PAUSE button* (📖 83)
CARD MIX button (📖113) / (stitch assist) button (📖106) / SLIDE SHOW button (📖109)
BATTERY RELEASE button (📖11)
TAPE/CARD switch (📖 3)
Using a tape
Using a memory card
Battery attachment unit (📖11)
Serial number
Card access indicator (📖96)
Memory card slot (📖92)
Backup battery compartment (📖15)
SET dial (📖37)
MENU button (📖37)
REC SEARCH
FOCUS
NIGHT MODE
CARD
DIGITAL EFFECTS
ON/OFF
EXP/
SEARCH
DATA CODE
DRIVE MODE
SLIDE SHOW/
REC PAUSE
Canon

* MVX250i/MVX200i only.

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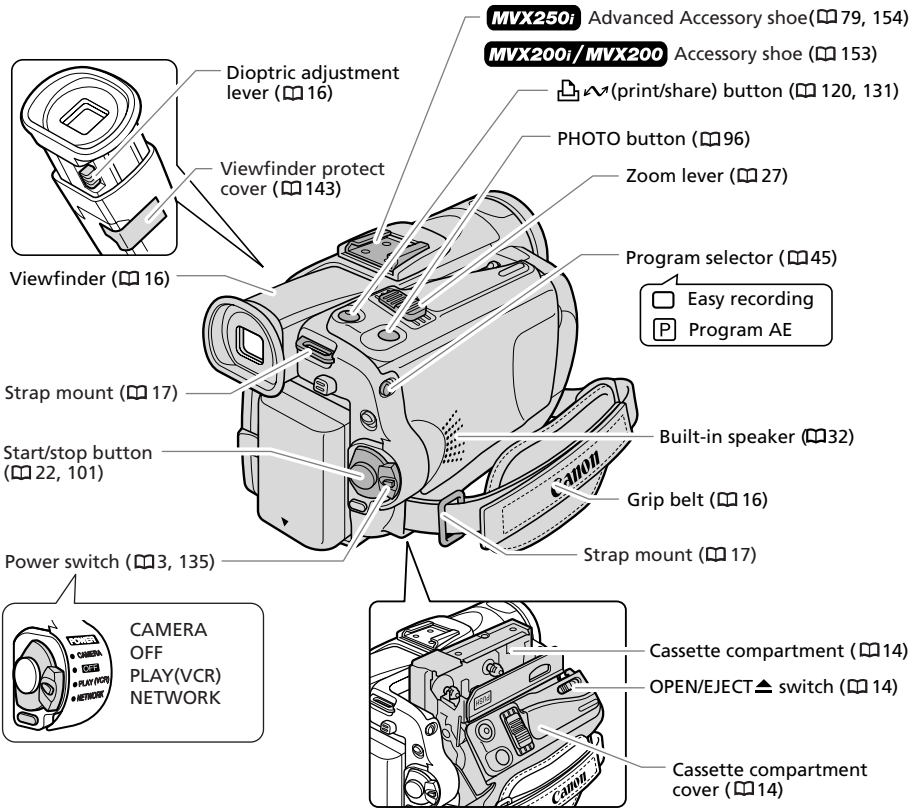

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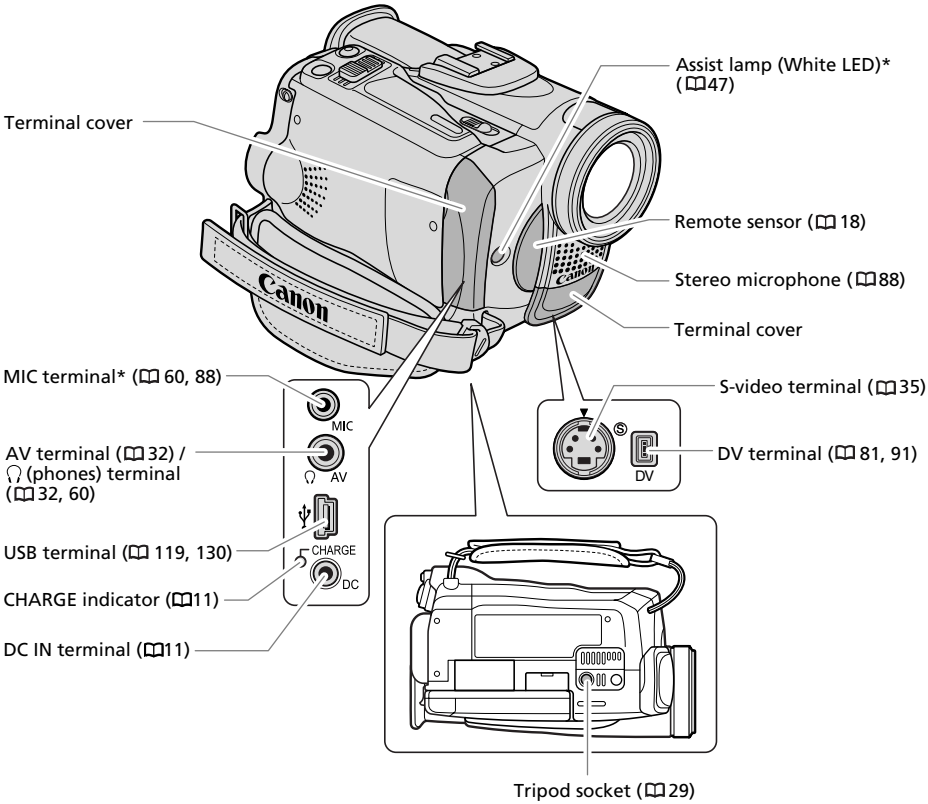

* MVX250i only.

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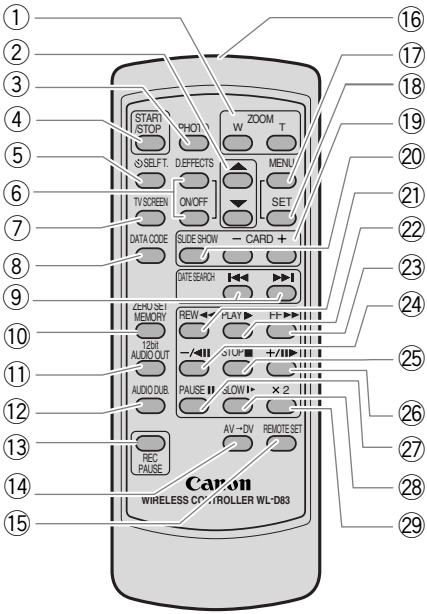
WL-D83 Wireless Controller



① Zoom buttons (📖27)	⑯ Transmitter
② Select buttons (📖37)	⑰ MENU button (📖37)
③ PHOTO button (📖96)	⑱ SET button (📖37)
④ START/STOP button (📖22, 101)	⑲ CARD –/+ buttons (📖108)
⑤ SELF T. button (📖57)	⑳ SLIDE SHOW button (📖109)
⑥ D. EFFECTS button, ON/OFF button (📖61)	㉑ REW ◄◄ button (📖30)
⑦ TV SCREEN button (📖136)	㉒ PLAY ▶ button (📖30)
⑧ DATA CODE button (📖69)	㉓ FF ►► button (📖30)
⑨ DATE SEARCH ⏮/⏭ buttons (📖73)	㉔ –/◄II button (📖31)
⑩ ZERO SET MEMORY button (📖72)	㉕ STOP ■ button (📖30)
⑪ 12bit AUDIO OUT button (📖90)	㉖ +/II► button (📖31)
⑫ AUDIO DUB. button (📖89)	㉗ PAUSE II button (📖31)
⑬ REC PAUSE button (📖83)*	㉘ SLOW I► button (📖31)
⑭ AV→DV button (📖87)*	㉙ ×2 button (📖31)
⑮ REMOTE SET button (📖76)	

* MVX250i/MVX200i only.

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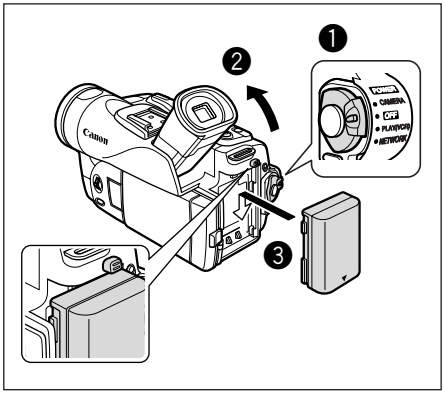
Preparing the Power Supply

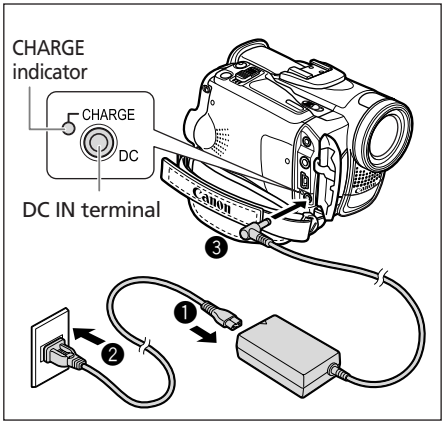
Attaching the Battery Pack

1. **Turn the POWER switch to OFF.**
2. **Move the viewfinder upward.**
3. **Attach the battery pack to the camcorder.**
   - Remove the terminal cover of the battery pack.
   - Press lightly and slide it in the direction of the arrow until it clicks.



Charging the Battery Pack

1. **Connect the power cord to the adapter.**
2. **Plug the power cord into a power outlet.**
3. **Connect the power adapter to the camcorder's DC IN terminal.**
   The CHARGE indicator starts flashing. It glows steadily when charging is complete.
4. **When charging is complete, disconnect the power adapter from the camcorder. Unplug the power cord from the power outlet and disconnect it from the adapter.**
5. **Remove the battery pack after use.**
   Press the BATTERY RELEASE button to remove the battery.



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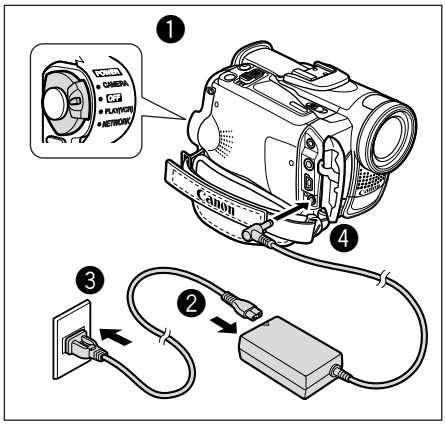
Using a Household Power Source

The LCD screen's backlight is brighter when the camcorder is powered from a household power source.

1. **Turn the POWER switch to OFF.**
2. **Connect the power cord to the power adapter.**
3. **Plug the power cord into a power outlet.**
4. **Connect the power adapter to the camcorder's DC IN terminal.**



- ❍ Turn off the camcorder before connecting or disconnecting the power adapter.
- ❍ If the adapter is used close to a TV, it may cause picture interference. Move the adapter away from the TV or the aerial cable.
- ❍ Do not connect any products that are not expressly recommended to the camcorder's DC IN terminal or to the power adapter.
- ❍ You may hear some noise from the power adapter during use. This is not a malfunction.
- ❍ Do not disconnect and reconnect the power cord while charging a battery pack. Charging may stop. The battery pack may not be charged correctly even if the CHARGE indicator glows steady. The battery pack may also not be charged correctly when a power outage occurs during charging. Remove the battery pack and attach it back to the camcorder.

- ❍ When the power adapter or battery pack is defective, the CHARGE indicator flashes rapidly (at about 2 flashes/second) and charging stops.
- ❍ The CHARGE indicator informs you about the charge status.
  0-50%: Flashes once every second
  More than 50%: Flashes twice every second
  100%: Glows steadily

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❍ **Charging, Recording and Playback Times**

Below times are approximate and vary according to the charging, recording or playback conditions.

		NB-2LH	NB-2L	BP-2L12	BP-2L14
Charging Time		115 min.	110 min.	180 min.	210 min.
Max. Recording Time	Viewfinder	115 min.	95 min.	200 min.	240 min.
	LCD	90 min.	75 min.	150 min.	190 min.
Typical Recording Time*	Viewfinder	65 min.	50 min.	110 min.	135 min.
	LCD	50 min.	40 min.	85 min.	105 min.
Playback Time		105 min.	85 min.	175 min.	220 min.

* Approximate times for recording with repeated operations such as start/stop, zooming, power on/off. Actual time may be shorter.

❍ We recommend charging the battery pack in temperatures between 10 ˚C and 30 ˚C. Outside the temperature range of 0 ˚C to 40 ˚C, the CHARGE indicator flashes rapidly and charging stops.

❍ A lithium ion battery pack can be charged at any charge state. Unlike conventional battery packs, you do not need to completely use or discharge it before charging.

❍ We recommend that you prepare battery packs 2 to 3 times longer than you think you might need.

❍ To conserve battery charge, turn off the camcorder instead of leaving it in record pause mode.

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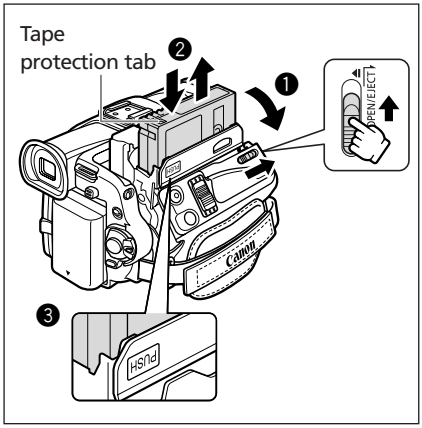
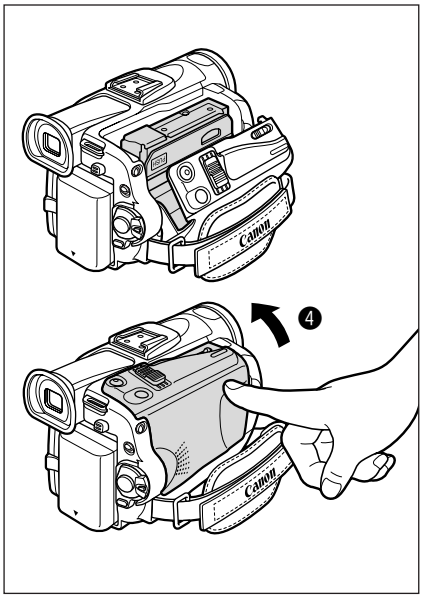
Loading/Unloading a Cassette

Use only video cassettes marked with the Mini DV logo.

1. **Slide and hold the OPEN/EJECT switch and open the cassette compartment cover.**
   The cassette compartment opens automatically.
2. **Load/unload the cassette.**
   - Load the cassette with the window facing the grip belt.
   - Unload the cassette by pulling it straight out.
3. **Press the PUSH mark on the cassette compartment until it clicks.**
4. **Wait for the cassette compartment to retract automatically and close the cassette compartment cover.**





- ❍ Do not interfere with the cassette compartment while it is opening or closing automatically, or attempt to close the cover before the cassette compartment has fully retracted.
- ❍ Be careful not to get your fingers caught in the cassette compartment cover.

If the camcorder is connected to a power source, cassettes can be loaded/unloaded even if the POWER switch is set to OFF.

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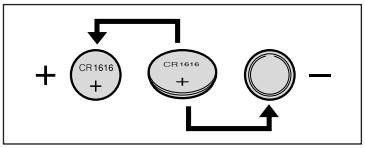
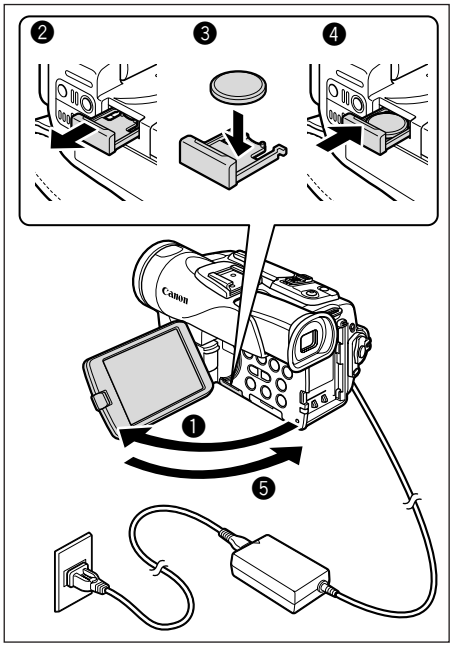
Installing the Backup Battery

The backup battery allows the camcorder to retain date, time (19) and other camcorder settings while the power source is disconnected. Connect a power source to the camcorder when replacing the backup battery to retain the settings.

1. **Press the OPEN button to open the LCD panel.**
2. **Pull out the battery holder.**
3. **Place the lithium battery with the + side facing downward into the battery holder.**



4. **Insert the battery holder.**
5. **Close the LCD panel.**



WARNING!

- The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100 °C or incinerate the battery.
- Replace the battery with a CR1616 made by Panasonic, Hitachi Maxell, Sony, Toshiba, Varta or Renata. Use of other batteries may present a risk of fire or explosion.
- The used battery should be returned to the supplier for safe disposal.

❍ Do not pick up the battery using tweezers or other metal tools as this will cause a short circuit.
❍ Wipe the battery with a clean dry cloth to ensure proper contact.
❍ Keep the battery out of reach of children. If it is swallowed, seek medical assistance immediately. The battery case may break and the battery fluids may damage stomach and intestines.
❍ Do not disassemble, heat or immerse the battery in water to avoid the risk of explosion.

The backup battery has a life span of about a year. ⏚ flashes in red to inform you that it needs to be replaced.

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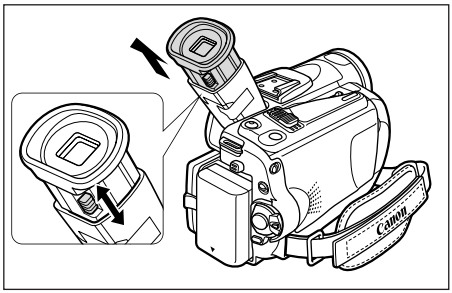
Preparing the Camcorder

Adjusting the Viewfinder (Dioptric Adjustment)

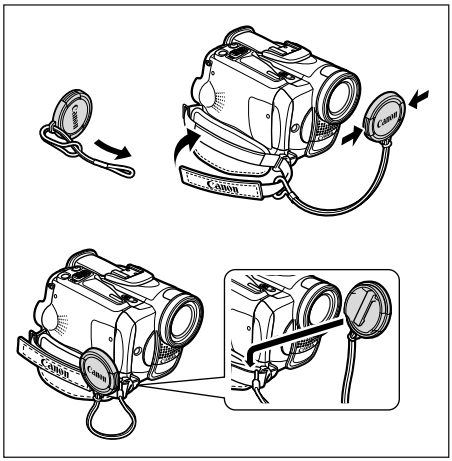
1. **Turn on the camcorder and keep the LCD panel closed.**
2. **Pull out the viewfinder.**
3. **Adjust the dioptric adjustment lever.**



Attaching the Lens Cap

1. **Attach the cord to the lens cap.**
2. **Pass the grip belt through the loop on the cord.**

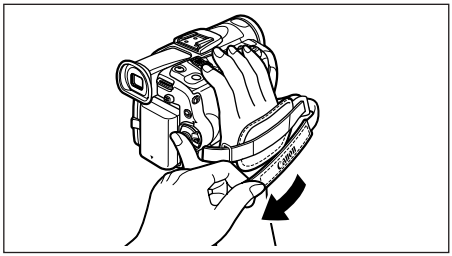
   Press the buttons on the lens cap when attaching/removing it. Hook the lens cap on the grip belt while you are recording, and place it over the lens when you have finished.



Fastening the Grip Belt

Hold the camcorder with your right hand and adjust the belt with your left.

Adjust the grip belt so that you can reach the zoom lever with your index finger, and the start/stop button with your thumb.



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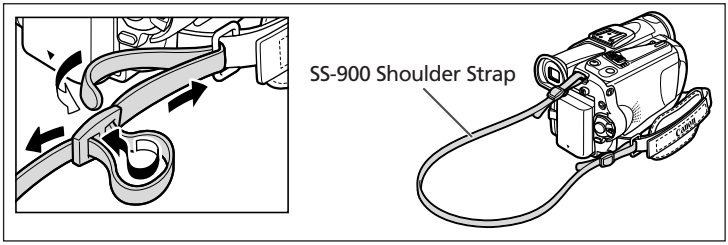
Attaching the Shoulder Strap

Pass the ends through the strap mount and adjust the length of the strap.



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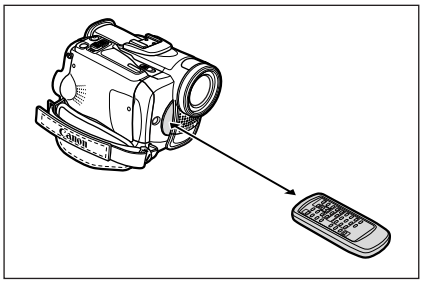
Using the Wireless Controller

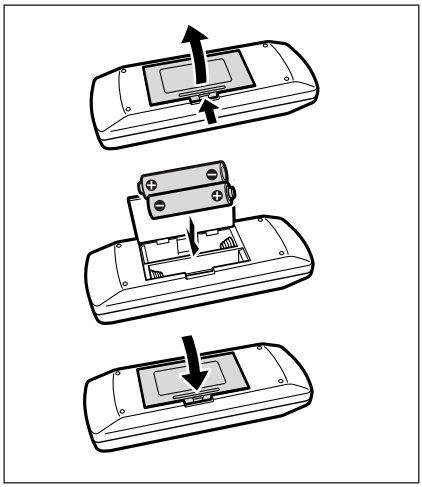
Point it at the camcorder's remote sensor when you press the buttons.



Inserting Batteries

The wireless controller operates with two AA (R6) batteries.

1. **Open the battery cover.**
2. **Insert the batteries following the + and – markings.**
   Replace both batteries.
3. **Close the battery cover.**



- ❍ Camcorder and wireless controller are equipped with 2 remote sensor modes (🕮 76). If the wireless controller does not work, check if camcorder and wireless controller are set to the same mode.
- ❍ The wireless controller may not work properly when the remote sensor is subjected to strong light sources or direct sunlight.

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Setting the Time Zone, Date and Time

Set the time zone, date and time when you first start using your camcorder, or when you have replaced the backup battery.

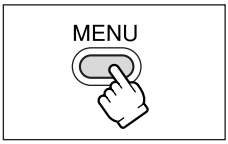
Setting the Time Zone/Daylight Saving Time

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

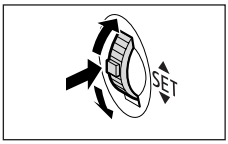
SYSTEM ▶ T.ZONE/DST···PARIS

1. Press the MENU button to open the menu.



2. Turn the SET dial to select [SYSTEM] and press the SET dial.

3. Turn the SET dial to select [T.ZONE/DST] and press the SET dial.



The time zone setting appears (see table on the next page). The default setting is Paris.

4. Turn the SET dial to select the setting option that represents your time zone and press the SET dial.

To adjust for daylight saving time, select the time zone with the ☀ next to the area.

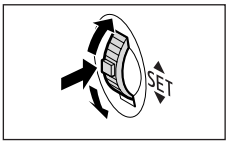
Setting the Date and Time

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

SYSTEM ▶ D/TIME SET··· 1.JAN.2004 12:00 PM

5. Turn the SET dial to select [D/TIME SET] and press the SET dial.



The year display starts to flash.

6. Turn the SET dial to select the year, and press the SET dial.

- The next part of the display starts flashing.
- Set the month, day, hours and minutes in the same way.

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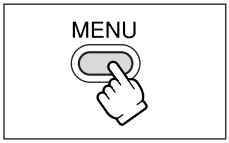
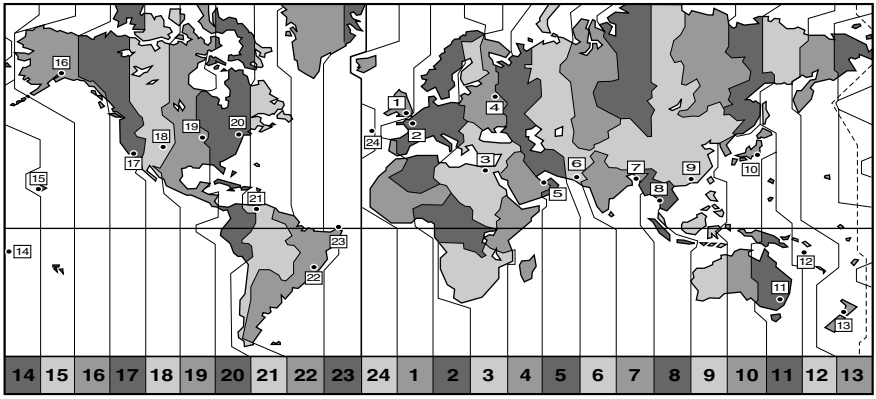
7. Press the MENU button to close the menu and to start the clock.





No.	Time zone	No.	Time zone
1	LONDON	13	WELLGTN (Wellington)
2	PARIS	14	SAMOA
3	CAIRO	15	HONOLU. (Honolulu)
4	MOSCOW	16	ANCHOR. (Anchorage)
5	DUBAI	17	L.A. (Los Angeles)
6	KARACHI	18	DENVER
7	DACCA	19	CHICAGO
8	BANGKOK	20	N.Y. (New York)
9	H. KONG (Hong Kong)	21	CARACAS
10	TOKYO	22	RIO (Rio de Janeiro)
11	SYDNEY	23	FERNAN. (Fernando de Noronha)
12	SOLOMON	24	AZORES

Once you have set time zone, date and time, you do not need to reset the clock each time you travel to another time zone. Just set the time zone to the one of your destination, and the camcorder automatically adjusts the clock.

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Displaying Date and Time during Recording

You can display the date and time in the lower left corner of the screen.

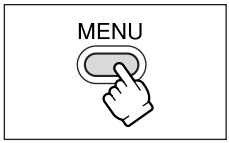
CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

E

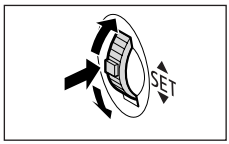
MENU (📖 37)

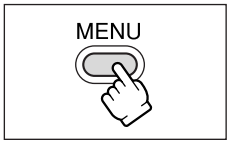
DISPLAY SETUP/💬 ▶ D/T DISPLAY••OFF

1. **Press the MENU button to open the menu.**



2. **Turn the SET dial to select [DISPLAY SETUP/💬] and press the SET dial.**
3. **Turn the SET dial to select [D/T DISPLAY] and press the SET dial.**
4. **Turn the SET dial to select [ON].**
5. **Press the MENU button to close the menu.**





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Recording Movies on a Tape

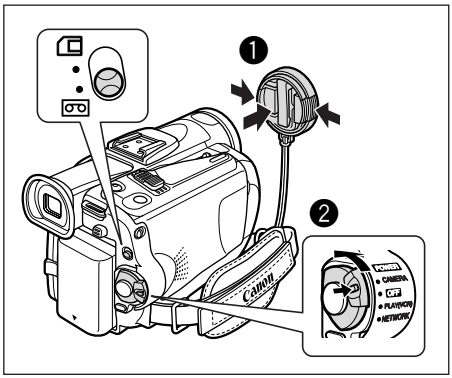
Before You Begin Recording

Make a test recording first to check if the camcorder operates correctly. Before you make important recordings, clean the video heads (📖 143).

Recording

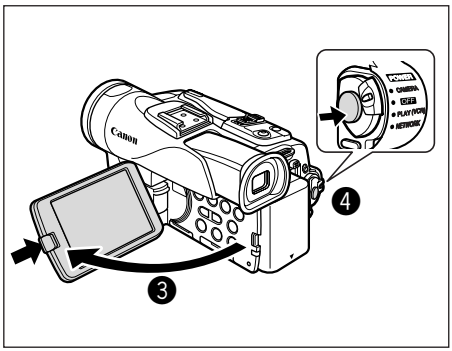
1. **Remove the lens cap.**
2. **Set the camcorder to CAMERA mode.**

   Set the POWER switch to CAMERA and the TAPE/CARD switch to 📼.



3. **Push the OPEN button at the LCD panel and open the LCD panel.**
4. **Press the start/stop button to begin recording.**

   Press the start/stop button again to pause recording.



When You Have Finished Recording

1. **Turn the POWER switch to OFF.**
2. **Close the LCD panel and return the viewfinder into its initial position.**
3. **Replace the lens cap.**
4. **Unload the cassette.**
5. **Disconnect the power source.**

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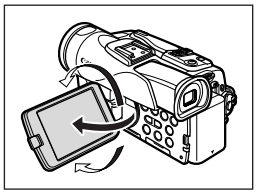
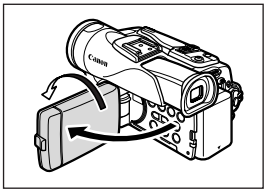
❍ Wait until the tape counter stops completely before you start recording.
❍ When you do not remove the cassette, you can record the next scene without producing any noise or blank sections between the recordings even if you turn the camcorder off.
❍ Bright light may make it difficult to use the LCD screen. In such case, use the viewfinder instead.
❍ 
You can rotate the LCD panel. Make sure to open the LCD panel at 90 degrees before rotating it.
❍ When recording near loud sounds (such as fireworks, drums or concerts), sound may become distorted or may be recorded not in the actual sound level.
❍ **The camcorder will shut off after 5 minutes when left in record pause mode to protect tape and video heads. "⚠ AUTO POWER OFF" appears 20 seconds before shutoff. To continue recording, turn the POWER switch to OFF and then back to CAMERA.**
❍ **About the LCD and viewfinder screen: The screens are produced with extremely high-precision manufacturing techniques, with more than 99.99% of the pixels operating to specification. Less than 0.01% of the pixels may occasionally misfire or appear as black or green dots. This has no effect on the recorded image and does not constitute a malfunction.**

Allowing the Subject to Monitor the LCD Screen



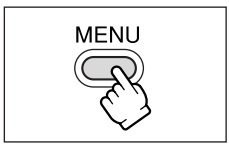
You can rotate the LCD panel so that the screen faces in the same direction as the lens. The viewfinder switches on allowing you to use the viewfinder while the subject can monitor the screen.
The image appears mirror reversed (LCD MIRROR ON). However, you can choose to display the image as it is being recorded (LCD MIRROR OFF).

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

MENU (📖 37)

DISPLAY SETUP/💬 ▶ LCD MIRROR···ON

1. Press the MENU button to open the menu.



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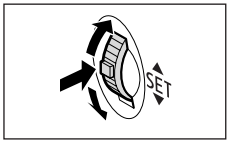
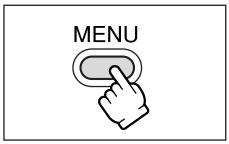
2. **Turn the SET dial to select [DISPLAY SETUP/] and press the SET dial.**
3. **Turn the SET dial to select [LCD MIRROR] and press the SET dial.**
4. **Turn the SET dial to select [OFF].**
5. **Press the MENU button to close the menu.**





When [LCD MIRROR] is set to [ON], only tape or card operation and self-timer displays appear on the LCD screen (all displays appear on the viewfinder screen).

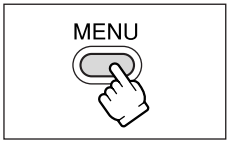
Adjusting the Brightness of the LCD Screen

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

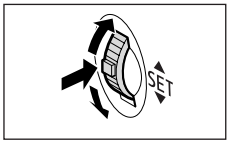
MENU (📖 37)

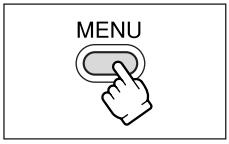
DISPLAY SETUP/ ▶ BRIGHTNESS···–+

1. **Press the MENU button to open the menu.**



2. **Turn the SET dial to select [DISPLAY SETUP/] and press the SET dial.**
3. **Turn the SET dial to select [BRIGHTNESS] and press the SET dial.**
4. **Turn the SET dial to adjust the brightness level.**
5. **Press the MENU button to close the menu.**





Changing the brightness of the LCD screen does not affect that of the viewfinder or the recordings.

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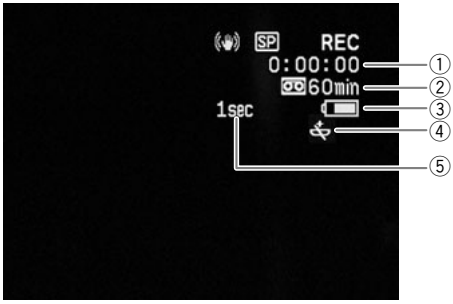
Screen Displays during Recording



① Time code

Indicates the recording time in hours, minutes and seconds.

② Remaining tape

Indicates the remaining time of the tape in minutes. END flashes when the tape reaches the end.

- When the time left is less than 15 seconds, the remaining tape time may not appear.
- Depending on the type of the tape, the indication may not be displayed correctly.

③ Remaining battery charge

The battery symbol indicates the charge status of the battery pack.

- starts flashing in red when the battery pack is empty.
- When you attach an empty battery pack, the power may turn off without displaying .
- The actual battery charge may not be indicated accurately depending on the condition under which battery pack and camcorder are used.

④ When flashes

flashes in red when the lithium button battery is not installed, or when it runs out.

⑤ Recording reminder

The camcorder counts from 1 to 10 seconds when you start recording. This is helpful to avoid scenes that are too short.

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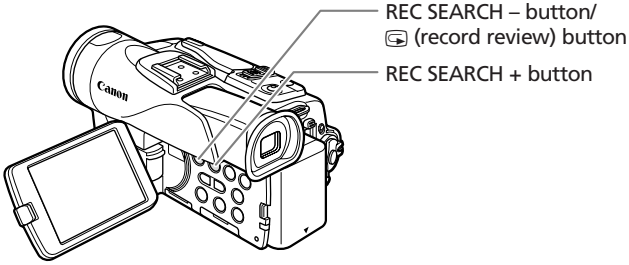
Reviewing and Searching when Recording



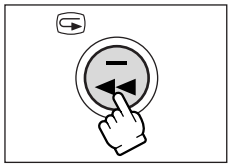
Record Review

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

In record pause mode, this function allows you to review the last few seconds of your recording to check if it has been recorded properly.

Press and release the (record review) button.

The camcorder rewinds the tape, plays back the last few seconds, and returns to record pause mode.



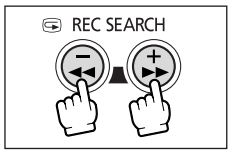
Record Search

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

In record pause mode, this function allows you to play back the tape (forward or reverse) to locate the point where you wish to begin recording.

Press and hold the REC SEARCH + button (forward) or – button (reverse).

- Release the button at the point you wish to begin recording.
- The camcorder returns to record pause mode.



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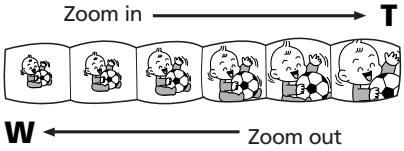
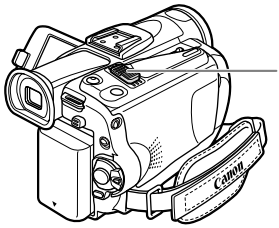
Zooming

The camcorder automatically switches between optical zooming and digital zooming. Image resolution is slightly lower with the digital zoom.





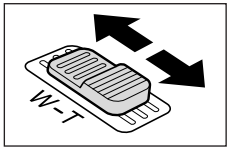
Optical Zoom

MVX250i	MVX200i / MVX200
18× optical zoom	14× optical zoom

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

Move the zoom lever toward W to zoom out (wide-angle). Move it toward T to zoom in (telephoto).

Press the zoom lever slightly for a slow zoom. Press harder for a faster zoom.



You can also use the **T** and **W** buttons on the wireless controller. However, you cannot control the zoom speed.

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Digital Zoom

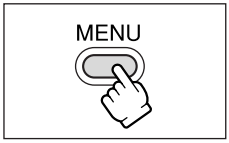
MVX250i	MVX200i / MVX200
72×/360× digital zoom (72× in CARD CAMERA mode)	56×/280× digital zoom (56× in CARD CAMERA mode)

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

CAMERA SETUP ▶ D.ZOOM·····72X

1. Press the MENU button to open the menu.

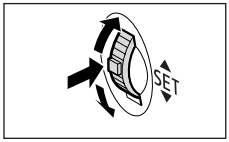


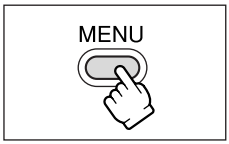
2. Turn the SET dial to select [CAMERA SETUP] and press the SET dial.

3. Turn the SET dial to select [D.ZOOM] and press the SET dial.

4. Turn the SET dial to select a setting option.

5. Press the MENU button to close the menu.





❍ Digital zoom cannot be used in the night modes.
❍ Digital zoom cannot be used when the multi-image screen is selected.
❍ A zoom indicator appears for 4 seconds. It extends in light blue when the digital zoom is set to 72× (MVX250i) or 56× (MVX200i/MVX200), and extends further in dark blue when set to 360× (MVX250i) or 280× (MVX200i/MVX200).
❍ Keep at least 1 m to the subject. At wide-angle, you can focus on a subject as close as 1 cm.

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Tips for Making Better Videos

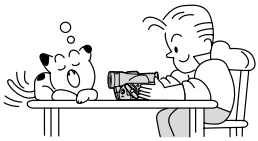
Holding the Camcorder

For maximum stability, grip the camcorder in your right hand and keep your right elbow pressed against your body. If necessary, support the camcorder with your left hand. Be careful that your fingers do not touch the microphone or lens.

For More Stability

Lean against a wall

Put the camcorder on a table

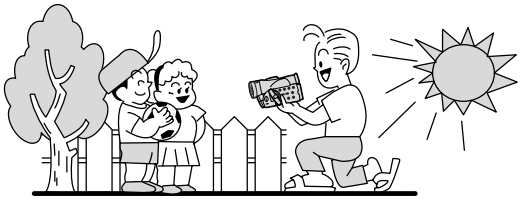


Lie on your elbow

Use a tripod

Lighting

When recording outdoors, we recommend recording with the sun at your back.



- ❍ When using a tripod, do not leave the viewfinder exposed to direct sunlight as it may melt (due to concentration of the light by the lens).
- ❍ Do not use tripods with fastening screws longer than 5.5 mm as it may damage the camcorder.

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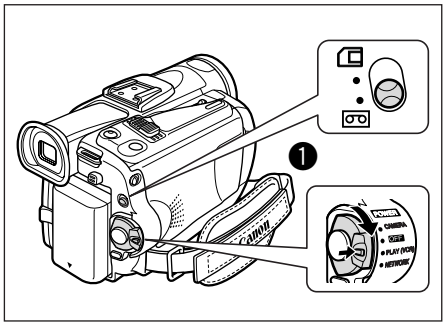
Playing Back a Tape

If the playback picture is distorted, clean the video heads using a Canon Head Cleaning Cassette or a commercially available digital video head-cleaning cassette (📖 143).

1. Set the camcorder to PLAY (VCR) mode.

Set the POWER switch to PLAY (VCR) and the TAPE/CARD switch to 📼.



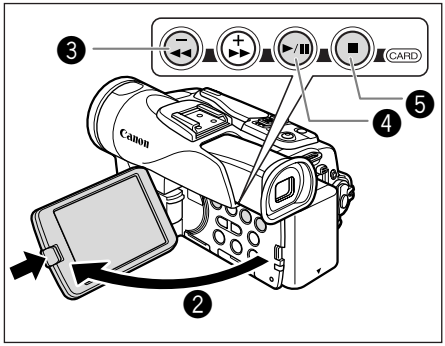
2. Open the LCD panel.

You can also close the LCD panel with the screen facing outward.

3. Press the ◀◀ button to rewind the tape.

4. Press the ▶/❚❚ button to begin playback.

5. Press the ■ button to stop playback.



❍ To use the viewfinder, close the LCD panel.

❍ About the screen display: During playback, the time code gives the hours, minutes, seconds and frames. The remaining tape time may not appear when the time left is less than 15 seconds.

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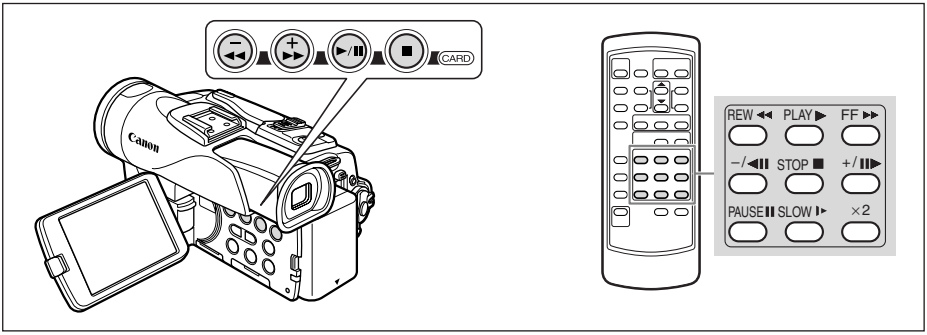
Special Playback Modes



▶/❚❚ (Playback Pause)

To pause playback, press the ▶/❚❚ button during normal playback.

▶▶ (Fast Forward Playback) / ◀◀ (Rewind Playback)

Plays back the tape at 11.5 times normal speed (forward or reverse). Press and hold the button during normal playback or fast forward.

–/◀❚❚ (Reverse Playback)

Press the button on the wireless controller during normal playback. Press the ▶ (play) button to return to normal playback.

+/❚❚▶ (Frame Advance) / –/◀❚❚ (Frame Reverse)

Plays back frame-by-frame. Press the button on the wireless controller repeatedly during playback pause. Press and hold it to play back continuous frame advance/frame reverse.

SLOW ❙▶ (Slow Forward)/(Slow Reverse)

Plays back at about 1/3 normal speed. Press the button on the wireless controller during normal or reverse playback. Press the ▶ (play) button to return to normal playback.

× 2 (Forward ×2 Playback)/(Reverse ×2 Playback)

Plays back at 2 times normal speed. Press the button on the wireless controller during normal or reverse playback. Press the ▶ (play) button to return to normal playback.

- ❍ There is no sound during special playback.
- ❍ The picture may become distorted during some special playback modes.
- ❍ The camcorder stops the tape automatically after 5 minutes in playback pause mode to protect tape and video heads.

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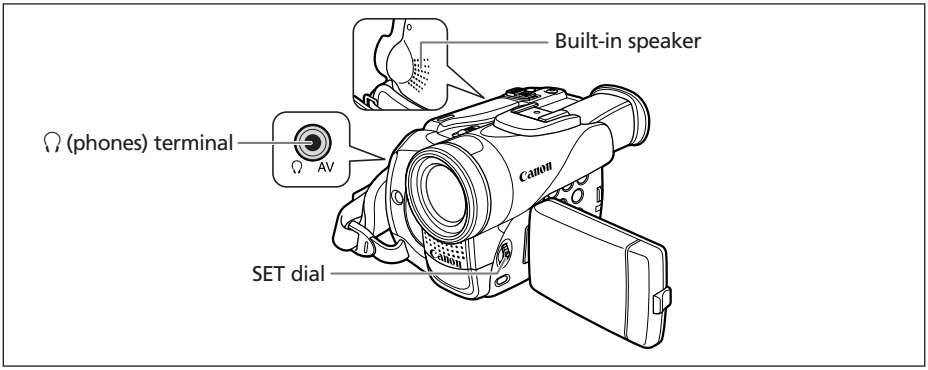
Adjusting the Volume

When you use the LCD screen for playback, the camcorder plays back the sound via built-in speaker. The built-in speaker does not sound when you close the LCD panel. Use headphones when using the viewfinder.



When Using Headphones

The headphones terminal also serves as AV terminal. Headphones can only be used when "" is displayed on the screen. If not, change the setting following the procedure below.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (37) → VCR SETUP → AV/PHONES ·· AV

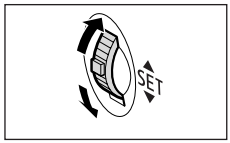
Open the menu and select [VCR SETUP]. Select [AV/PHONES], set it to [PHONES] and close the menu.

- The built-in speaker does not sound when "" is displayed.
- Do not connect headphones unless "" is displayed as it produces noise.

Adjusting the Volume

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

Turn the SET dial up to increase the volume, and down to lower the volume.



- A volume bar appears for 2 seconds.
- You can turn off the volume completely by turning the SET dial down until [OFF] appears. Turn the SET dial up to increase the volume again.

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Playing Back on a TV Screen

The AV terminal also serves as headphones terminal. When "🎧" is displayed on the screen, change the setting following the procedure below.

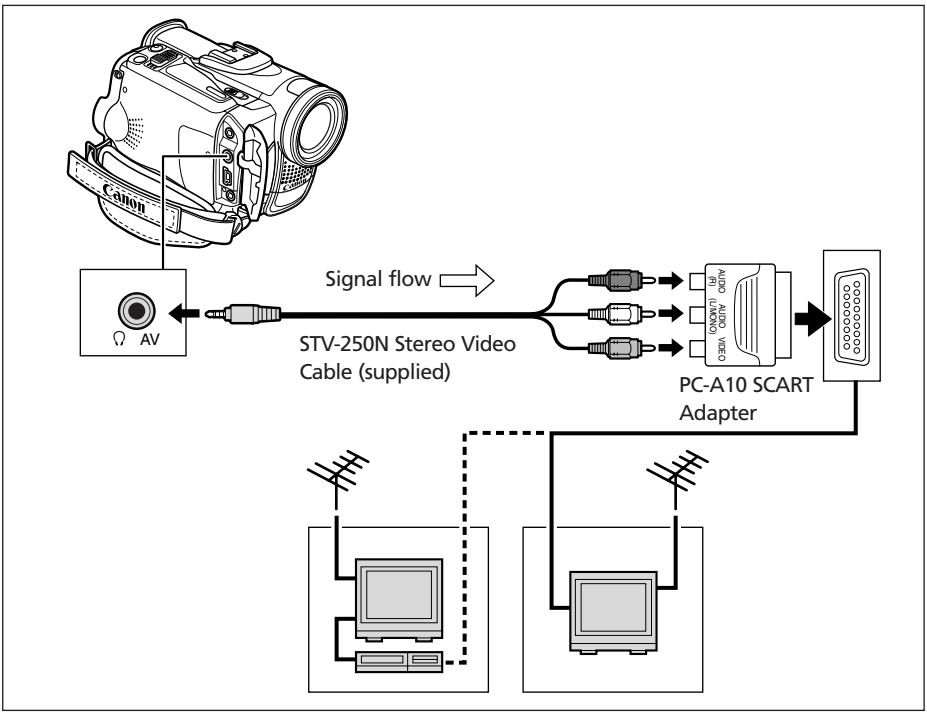
CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37) → VCR SETUP → AV/PHONES 🎧 ··AV

Open the menu and select [VCR SETUP]. Select [AV/PHONES 🎧], set it to [AV] and close the menu.

TVs with SCART Terminal

Refer also to the TV or VCR instruction manual.



1. **Turn off all devices before starting the connections.**
2. **Connect the PC-A10 SCART Adapter to the TV or VCR's SCART terminal.**
3. **Connect the STV-250N Stereo Video Cable to the camcorder's AV terminal and the audio/video terminals on the SCART Adapter.**

   Connect the white plug to the white AUDIO terminal L (left), and the red plug to the red AUDIO terminal R (right) and the yellow plug to the yellow VIDEO terminal.

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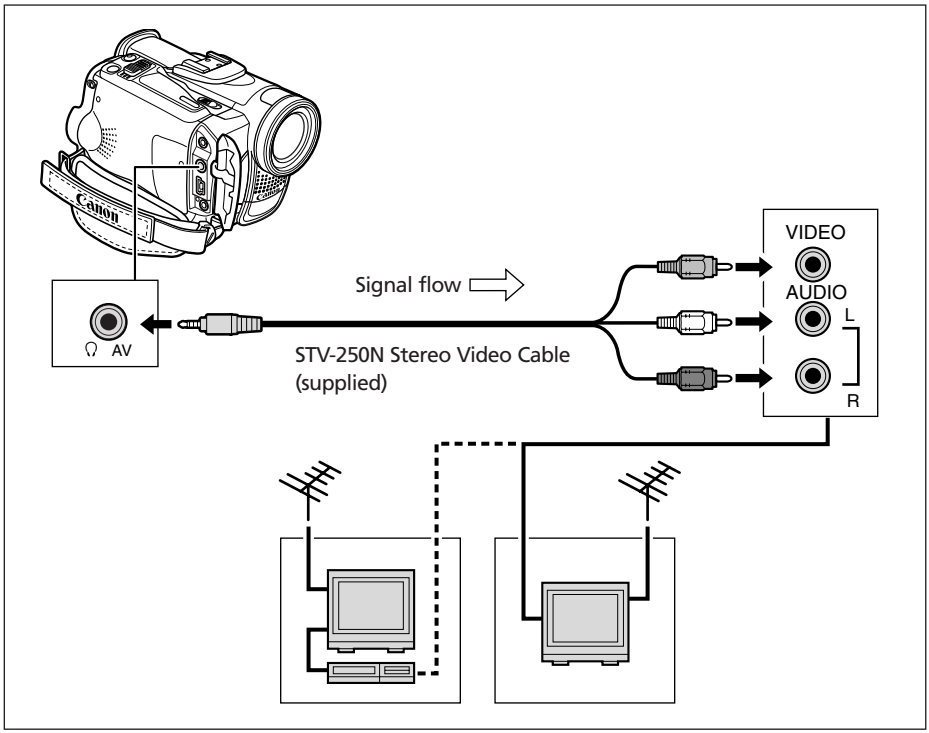
4. If connecting to a TV, set the input selector to VIDEO. If connecting to a VCR, set the input selector to LINE.

The supplied PC-A10 SCART Adapter is for output only. For analog line-in recording or analog-digital conversion, please use a SCART Adapter with input capability (commercially available).

TVs with Audio/Video Terminals

Refer also to the TV or VCR instruction manual.



1. Turn off all devices before starting the connections.

2. Connect the STV-250N Stereo Video Cable to the camcorder's AV terminal and the audio/video terminals on the TV/VCR.

Connect the white plug to the white audio terminal L (left), the red plug to the red audio terminal R (right) and the yellow plug to the yellow video terminal VIDEO.

3. If connecting to a TV, set the input selector to VIDEO. If connecting to a VCR, set the input selector to LINE.

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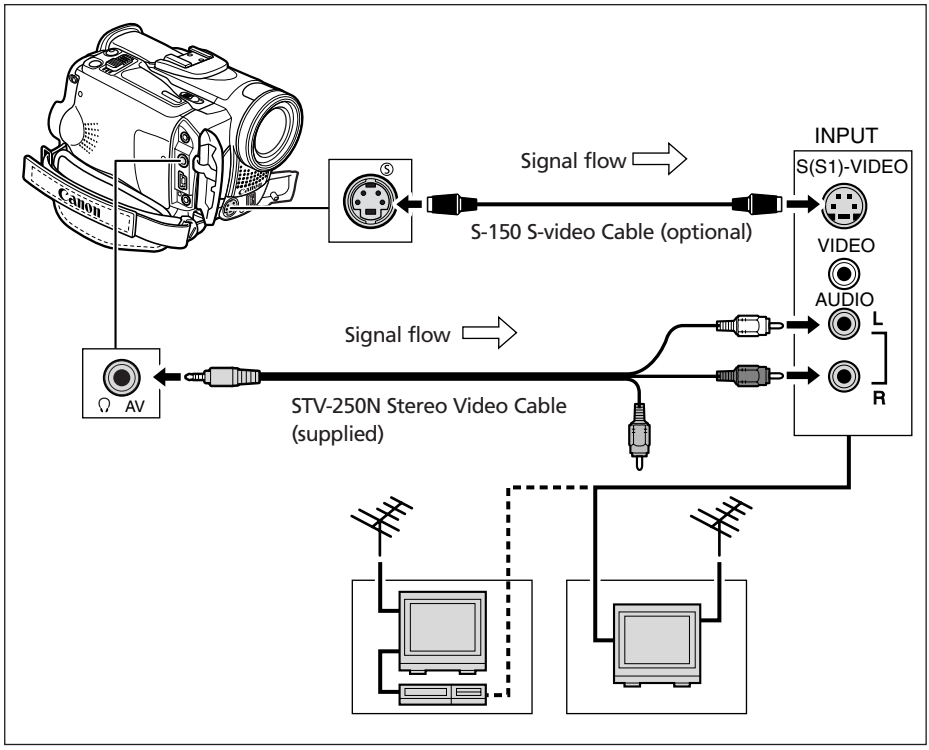
TVs with S (S1)-Video Input Terminal

Refer also to the TV or VCR instruction manual.



1. **Turn off all devices before starting the connections.**
2. **Connect the S-150 S-video Cable (optional) to the S-video terminals.**
3. **Connect the STV-250N Stereo Video Cable to the camcorder's AV terminal and the audio terminals of the TV/VCR.**

   Connect the white plug to the white AUDIO terminal L (left), and the red plug to the red AUDIO terminal R (right). Do not connect the yellow plug.
4. **If connecting to a TV, set the input selector to VIDEO. If connecting to a VCR, set the input selector to LINE.**

❍ We recommend powering the camcorder from a household power source.
❍ The picture quality is higher when connecting to a TV with an S (S1) terminal.

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Selecting the Audio Output Channel

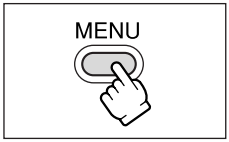
You can select the output channels when playing back a tape with audio recorded on two channels.

CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

MENU (📖 37)

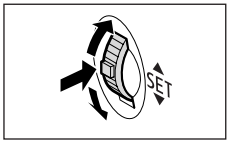
AUDIO SETUP ▶ OUTPUT CH····L/R

1. Press the MENU button to open the menu.



2. Turn the SET dial to select [AUTO SETUP] and press the SET dial.

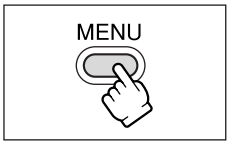
3. Turn the SET dial to select [OUTPUT CH] and press the SET dial.



4. Turn the SET dial to select a setting option.

- L/R: Stereo: L+R channels, Bilingual: Main+Sub.
- L/L: Stereo: L channel, Bilingual: Main.
- R/R: Stereo: R channel, Bilingual: Sub.

5. Turn the SET dial to select a setting option.



The setting resets to the L/R setting when you turn the camcorder off.

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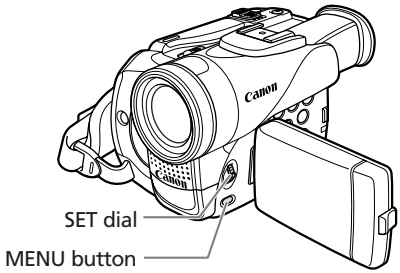
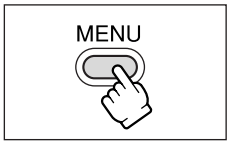
Menus and Settings

Many of the camcorder's advanced functions are selected from menus that appear on the screen.



Selecting Menus and Settings

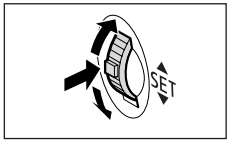
1. Press the MENU button to open the menu.



2. Turn the SET dial to select a submenu and press the SET dial.

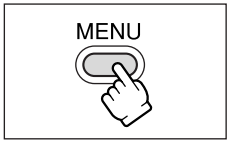
3. Turn the SET dial to select a menu item and press the SET dial.

4. Turn the SET dial to select a setting option.



5. Press the MENU button to close the menu.

When setting the white balance, shutter speed or language, press the SET dial first before pressing the MENU button.



- ❍ Pressing the MENU button at any time closes the menu.
- ❍ Items that are not available appear in purple.
- ❍ You may find it more convenient to use the wireless controller to operate the menu. Press the MENU button on the wireless controller to open or close the menu. Use the select buttons in place of the SET dial and press the SET button in place of pressing the SET dial.

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Menu and Default Settings

Default settings are shown in boldface.

CAMERA MENU

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

Submenu	Menu Item	Setting Options	📖
➡CARD MIX	MIX TYPE	**CARD CHROMA**, CARD LUMI., CAM. CHROMA, C. ANIMATION	113
	ANIMAT. TYPE	**CORNER**, STRAIGHT, RANDOM	
	MIX LEVEL		
CAMERA SETUP	SHUTTER	**AUTO**, 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000	55
	A.SL SHUTTER	**ON**, OFF	56
	D. ZOOM	MVX250i: OFF, **72×**, 360× / MVX200i/MVX200: OFF, **56×**, 280×	28
	IMG STAB	**ON**, OFF	78
	16:9	ON, **OFF**	77
	WHITE BAL.	**AUTO**, SET, INDOOR, OUTDOOR	53
	(FLASH*)	**AUTO**, RED-EYE, FLASH ON, FLASH OFF	79
	(AF AST LAMP*)	**AUTO**, OFF	80
	NIGHT MODE*	NIGHT, **NIGHT+**, S.NIGHT	47
	SKIN DETAIL	SOFT, **NORMAL**	49
	STILL I. REC	**OFF**, FINE, NORMAL	97
VCR SETUP	REC MODE	**SP**, LP	58
	AV/PHONES	**AV**, PHONES	60
AUDIO SETUP	WIND SCREEN	**AUTO**, OFF	59
	AUDIO MODE	16bit, **12bit**	59
	VOLUME		60
DISPLAY SETUP/	BRIGHTNESS		24
	LCD MIRROR	**ON**, OFF	23
	TV SCREEN	**ON**, OFF	136
	D/T DISPLAY	ON, **OFF**	21
	LANGUAGE	DEUTSCH, **ENGLISH**, ESPAÑOL, FRANÇAIS, ITALIANO, РУССКИЙ, 中文, 日本語	75
	DATE FORMAT		75
	DEMO MODE	**ON**, OFF	78

* MVX250i only.

( ): Appears when you attach the optional VFL-1 Video Flash Light and set it to ON.

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Submenu	Menu Item	Setting Options	🕮
SYSTEM	WL. REMOTE	**1**, 2, OFF	76
	BEEP	**ON**, OFF	77
	T.ZONE/DST	See list of time zones.	19
	D/TIME SET		19
MY CAMERA	S-UP SOUND	OFF, **DEFAULT**, MY SOUND	74
	SHTR SOUND		
	OPER. SOUND		
	SELF-T SOUND		

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PLAY (VCR) MENU

CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

Submenu	Menu Item	Setting Options	🕮
VCR SETUP	REC MODE*	**SP**, LP	58
	AV/PHONES 🎧	**AV**, PHONES 🎧	32
	AV ➡ DV OUT*	ON, **OFF**	87
AUDIO SETUP	OUTPUT CH	**L/R**, L/L, R/R	36
	AUDIO DUB.*	**AUDIO IN**, MIC. IN	89
	WIND SCREEN	**AUTO**, OFF	59
	AUDIO MODE*	16bit, **12bit**	59
	12bit AUDIO	**STEREO1**, STEREO2, MIX/FIXED, MIX/VARI.	90
	MIX BALANCE		90
CARD SETUP	IMG QUALITY	SUPER FINE, **FINE**, NORMAL	93
	MOVIE SIZE	**320** × **240**, 160 × 120	94
	FILE NOS.	RESET, **CONTINUOUS**	95
DISPLAY SETUP/ 💬	BRIGHTNESS		24
	TV SCREEN	ON, **OFF**	136
	DISPLAYS	**ON**, OFF <PLAYBK>	136
	6SEC. DATE	ON, **OFF**	70
	DATA CODE	**DATE/TIME**, CAMERA DATA, CAM. & D/T	69
	D/TIME SEL.	DATE, TIME, **DATE & TIME**	69
	LANGUAGE 💬	DEUTSCH, **ENGLISH**, ESPAÑOL, FRANÇAIS, ITALIANO, РУССКИЙ, 中文, 日本語	75
	DATE FORMAT		75
SYSTEM	WL. REMOTE	**1**, 2, OFF	76
	BEEP	**ON**, OFF	77
	T.ZONE/DST	See list of time zones.	19
	D/TIME SET		19
MY CAMERA	S-UP SOUND	OFF, **DEFAULT**, MY SOUND	74
	SHTR SOUND		
	OPER. SOUND		
	SELF-T SOUND		

* MVX250i/MVX200i only.

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CARD CAMERA MENU

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

E

Submenu	Menu Item	Setting Options	📖
CAMERA SETUP	SHUTTER	**AUTO**, 1/50, 1/120, 1/250	55
	A.SL SHUTTER	**ON**, OFF	56
	D.ZOOM	MVX250i: **OFF**, 72× / MVX200i/MVX200: **OFF**, 56×	29
	WHITE BAL.	**AUTO**, SET, INDOOR, OUTDOOR	53
	(FLASH*)	**AUTO** A, RED-EYE, FLASH ON, FLASH OFF	79
	(AF AST LAMP*)	**AUTO**, OFF	80
	FOCUS PRI.	**ON**, OFF	103
	ND	**AUTO**, OFF	97
	NIGHT MODE*	NIGHT, **NIGHT+**, S.NIGHT	47
	SKIN DETAIL	SOFT, **NORMAL**	49
	REVIEW	OFF, **2sec**, 4sec, 6sec, 8sec, 10sec	100
CARD SETUP	IMG QUALITY	SUPER FINE, **FINE**, NORMAL	93
	IMAGE SIZE	**1280** × **960**, 640 × 480	93
	MOVIE SIZE	**320** × **240**, 160 × 120	94
	FILE NOS.	RESET, **CONTINUOUS**	95
VCR SETUP	AV/PHONES	**AV**, PHONES	60
AUDIO SETUP	WIND SCREEN	**AUTO**, OFF	59
	VOLUME		60
DISPLAY SETUP/	BRIGHTNESS		24
	LCD MIRROR	**ON**, OFF	23
	TV SCREEN	**ON**, OFF	136
	D/T DISPLAY	ON, **OFF**	21
	LANGUAGE	DEUTSCH, **ENGLISH**, ESPAÑOL, FRANÇAIS, ITALIANO, РУССКИЙ, 中文, 日本語	75
	DATE FORMAT		75
	DEMO MODE	**ON**, OFF	78

* MVX250i only.

( ): Appears when you attach the optional VFL-1 Video Flash Light and set it to ON.

Advanced Functions

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Submenu	Menu Item	Setting Options	🕮
SYSTEM	WL. REMOTE	**1**, 2, OFF	76
	BEEP	**ON**, OFF	77
	T.ZONE/DST	See list of time zones.	19
	D/TIME SET		19
MY CAMERA	S-UP SOUND	OFF, **DEFAULT**, MY SOUND	74
	SHTR SOUND		
	OPER. SOUND		
	SELF-T SOUND		

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CARD PLAY MENU

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

Submenu	Menu Item	Setting Options	📖
CARD OPERATIONS (Single Image Display)	PRINT ORDERS ALL ERASE	**NO**, YES	129
	TRANS. ORDERS ALL ERASE	**NO**, YES	134
	IMAGE ERASE	**CANCEL**, SINGLE, ALL	112
	FORMAT	**CANCEL**, EXECUTE	117
CARD OPERATIONS (Index Screen)	➡ PROTECT		111
	➡ PRINT ORDER		128
	➡ TRANSFER ORDER		134
VCR SETUP	AV/PHONES	**AV**, PHONES	32
DISPLAY SETUP/	BRIGHTNESS		24
	TV SCREEN	ON, **OFF**	136
	DISPLAYS	**ON**, OFF <PLAYBK>	136
	D/TIME SEL.	DATE, TIME, **DATE & TIME**	69
	LANGUAGE	DEUTSCH, **ENGLISH**, ESPAÑOL, FRANÇAIS, ITALIANO, РУССКИЙ, 中文, 日本語	75
	DATE FORMAT		75
SYSTEM	WL. REMOTE	**1**, 2, OFF	76
	BEEP	**ON**, OFF	77
	T.ZONE/DST	See list of time zones.	19
	D/TIME SET		19
MY CAMERA	CREATE START-UP IMAGE		118
	SEL. S-UP IMG	NO IMAGE, **CANON LOGO**, MY IMAGE	75
	S-UP SOUND	OFF, **DEFAULT**, MY SOUND	75
	SHTR SOUND		
	OPER. SOUND		
	SELF-T SOUND		
➡ PRINT	Appears when connecting a printer with direct print function.		129

E

Advanced Functions

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Using the Recording Programs

Easy Recording Program

The camcorder adjusts focus, exposure and other settings automatically, allowing you to just point and shoot.

Program AE Modes

Auto

The camcorder adjusts focus, exposure and other settings automatically. However, you have the option of adjusting the settings manually.

Sports

Use this mode to record sports scenes (such as tennis or golf) or moving objects (such as roller coasters).

Portrait

Use this mode to give accent to your subject by blurring the background or foreground. The blur effect increases the more you zoom to telephoto.

Spotlight

Use this mode to record spotlit scenes or fireworks.

Sand & Snow

Use this mode in bright places such as a sunny beach or ski resort. It prevents the subject from being underexposed.

Low Light

Use this mode to record in dimly lit places.

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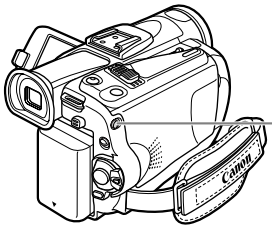


Availability of Functions in Each Mode:

Recording Program	□	A					
Digital Zoom	○	○					
Image Stabilizer	ON	○					
Focus	A	○					
White Balance	A	○					
Shutter Speed	A	○	A				
Exposure Lock	×	○					
Digital Effects	×	○					
16:9	×	○					
Card Mix	×	○					

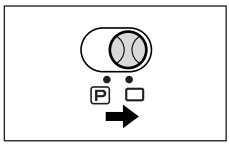
A: Auto setting ○: Available ×: Not available
Shaded area : Can be used only in CAMERA mode.

Selecting the Easy Recording Program

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

Set the program selector to □.

"□" appears.



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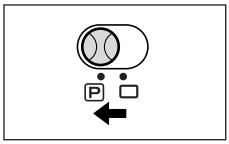
Selecting the Program AE Mode

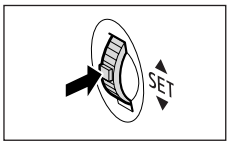
CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

1. Set the program selector to P.



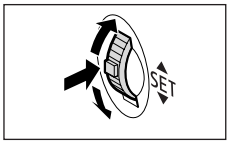
2. Press the SET dial.

A list of the program AE modes appears.



3. Select a mode and press the SET dial.

The symbol of the mode appears on the upper left corner of the screen.



- ❍ The setting resets to the Auto mode when you change the position of the program selector.
- ❍ Do not change the mode during recording as the brightness of the image may change abruptly.
- ❍ Sports/Portrait mode:
  The picture may not appear smooth when played back.
- ❍ Sand & Snow mode:
  - The subject may become overexposed in dark surroundings. Check the image on the screen.
  - The picture may not appear smooth when played back.
- ❍ Low Light mode:
  - Moving subjects may leave a trailing afterimage.
  - Picture quality may not be as good as in other modes.
  - The camcorder may have difficulty to focus automatically.

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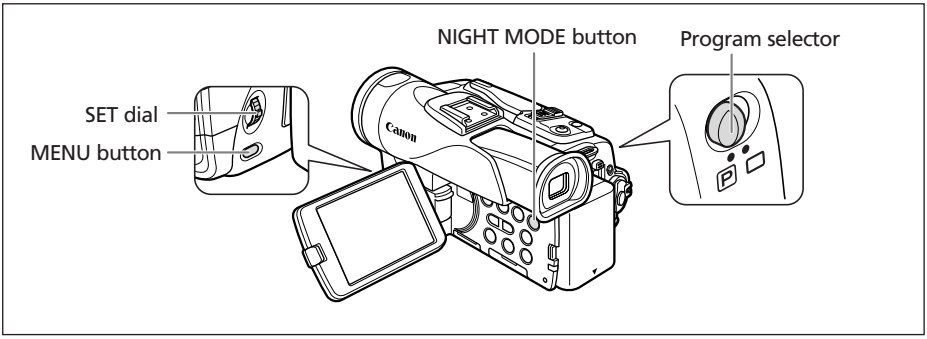
Using the Night Modes

NIGHT	Allows you to record in dark places where lights cannot be used, without sacrificing color.
MVX250i NIGHT+	The assist lamp (white LED) lights up and stays on.
MVX250i SUPER NIGHT	Allows you to record in very dark places. The assist lamp (white LED) lights up automatically responding to the surrounding brightness.

Night Mode

Night+ Mode
Super Night Mode



CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MVX250i

MENU (📖 37)

CAMERA SETUP ▶ NIGHT MODE··· NIGHT+

1. **Set the program selector to P.**
2. **Open the menu and select [CAMERA SETUP]. Select [NIGHT MODE], select a setting option and close the menu.**
3. **Press the NIGHT MODE button.**
   - The symbol of the selected mode appears on the screen.
   - Pressing the NIGHT MODE button again resets the camcorder to the Auto mode.

MVX200i / MVX200

1. **Set the program selector to P.**
2. **Press the NIGHT MODE button.**
   - " " appears.
   - Pressing the NIGHT MODE button again resets the camcorder to the Auto mode.

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❍ Moving subjects may leave a trailing afterimage.
❍ Picture quality may not be as good as in other modes.
❍ White points may appear on the screen.
❍ Autofocus may not work as well as in other modes. In such case, adjust the focus manually.
❍ Digital zoom and multi-image screen cannot be used while a night mode is activated.
❍ The program AE mode cannot be changed while a night mode is activated.

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Skin Detail Function

When shooting close-ups of people, the camcorder automatically softens details to reduce the appearance of skin imperfections for a more complimentary appearance.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

CAMERA SETUP ▶ SKIN DETAIL··NORMAL

Open the menu and select [CAMERA SETUP]. Select [SKIN DETAIL], set it to [SOFT] and close the menu.

❍ Skin detail function cannot be used when the program selector is set to ▭.
❍ To obtain the best effect, use this function when recording a person in close-up. Note that areas similar to the skin color may lack in detail.

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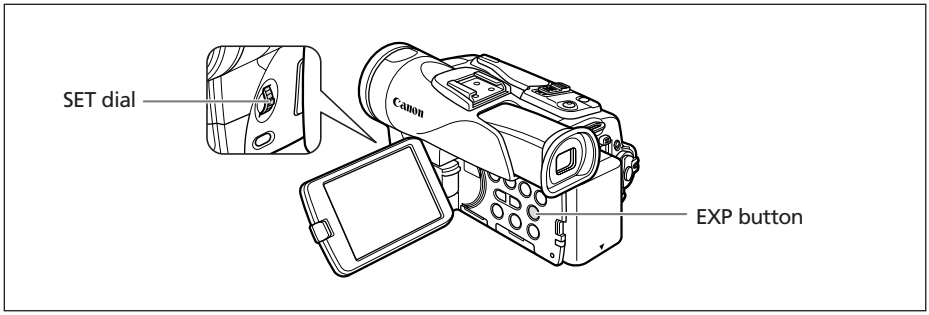
Adjusting Exposure Manually

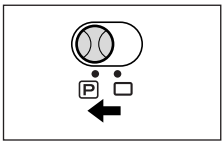


Exposure Lock

You can lock the exposure when recording in situations where the lighting may change suddenly to control the brightness of the image.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

1. Set the program selector to P.



2. Press the EXP button.

- "E.LOCK ±0" appears on the screen.
- When you operate the zoom during exposure lock, the brightness of the image may change.

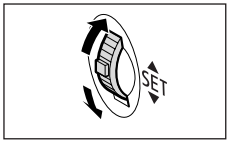
Exposure Adjustment

When the exposure is locked, you can adjust it manually to handle difficult lighting conditions. The camcorder's iris can be set to any position from fully closed to fully open.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

Turn the SET dial to adjust the brightness of the image.

The adjustment range depends on the brightness at the time you locked the exposure.



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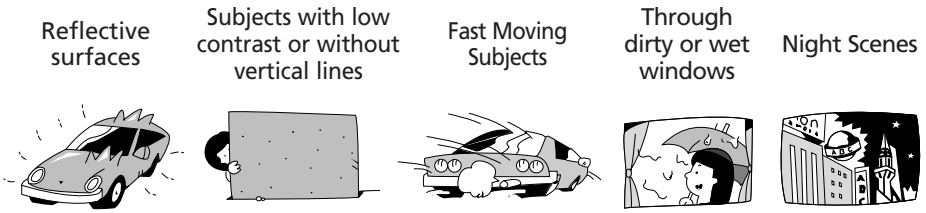
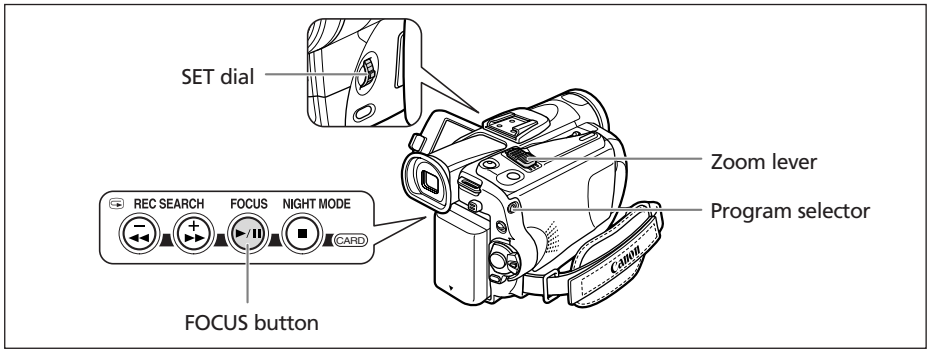
Adjusting the Focus Manually

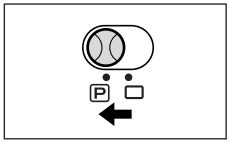
Autofocus may not work well on the following subjects. In such case, focus manually.


Reflective surfaces
Subjects with low contrast or without vertical lines
Fast Moving Subjects
Through dirty or wet windows
Night Scenes



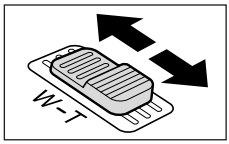
CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

1. Set the program selector to P.



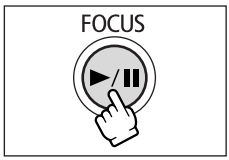
2. Adjust the zoom.

When you operate the zoom after adjusting the focus, the subject may not stay in focus. Adjust the zoom before the focus.



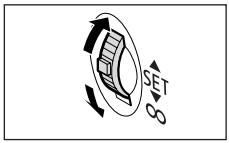
3. Press the FOCUS button.

"MF" appears.



4. Turn the SET dial to adjust the focus.

- Turn the SET dial up or down until the image appears focused.
- Press the FOCUS button to return to autofocus.



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❍ The setting resets to autofocus when you switch the program selector to ▭.
❍ Readjust the focus when you have turned off the camcorder.

Infinity Focus

Use this function when you wish to focus on faraway subjects such as mountains or fireworks.

Press the FOCUS button more than 2 seconds after step 2 in *Adjusting the Focus Manually*.

"MF ∞" appears.

When you operate the zoom or turn the SET dial, "∞" disappears and the camcorder changes to manual focus.

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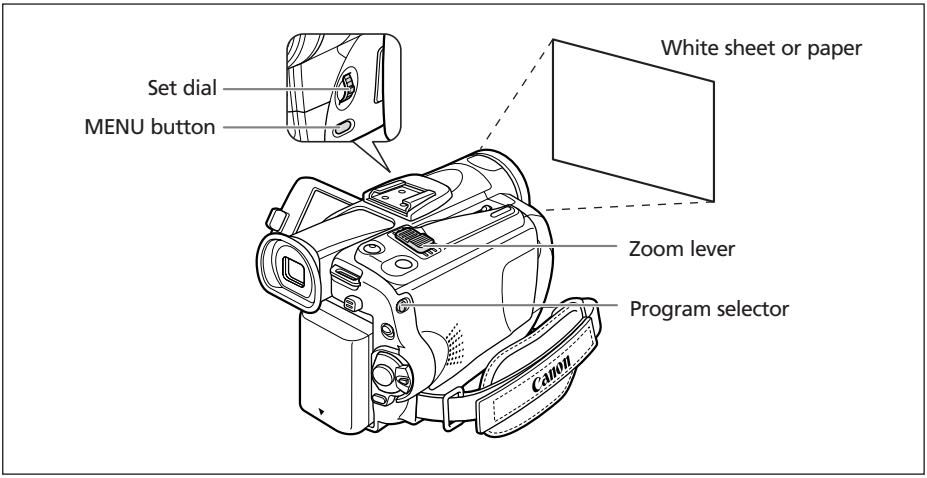
Setting the White Balance

You can use the preset modes to reproduce colours more accurately, or set a custom white balance to obtain the optimal setting.

AUTO	Auto white balance
SET	Custom white balance setting
INDOOR	Use this mode for recording under changing lighting condition, video lights or sodium lamps.
OUTDOOR	Use this mode for recording night scenes, fireworks, sunrise or sunset.



CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

CAMERA SETUP ▶ WHITE BAL.•••AUTO

1. **Set the program selector to P.**
2. **For custom white balance: Point the camcorder at a white object and zoom in until it fills the whole screen.**

   Keep the camcorder zoomed at the white object until step 3 is completed.
3. **Open the menu and select [CAMERA SETUP]. Select [WHITE BAL.], select a setting option and close the menu.**

   When you have selected [SET]: " " flashes and stops flashing when settings is complete.

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❍ Use the auto setting for normal outdoor scenes.
❍ When the program selector is set to ▭, white balance is preset to [AUTO].
❍ The camcorder retains the custom white balance setting even if you turn it off. However, it resets to [AUTO] when you change the position of the TAPE/CARD switch.
❍ When you have set the custom white balance:
- Depending on the light source, "▪" may keep flashing. The result will still be better than with the auto setting.
- Reset the white balance when the lighting condition changes.
- Turn off the digital zoom.

❍ Custom white balance may provide better results in the following cases:
- Changing lighting conditions
- Close-ups
- Subjects in a single colour (sky, sea or forest)
- Under mercury lamps or certain types of fluorescent lights

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Setting the Shutter Speed

You can adjust the shutter speed manually to make stable shots of fast moving subjects.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

CAMERA SETUP ▶ SHUTTER·····AUTO

1. **Set the program selector to P.**
2. **Set the program AE mode to the A (Auto) mode.**
3. **Open the menu and select [CAMERA SETUP].**
4. **Select [SHUTTER].**
5. **Select the shutter speed and press the SET dial.**

CAMERA Mode	CARD CAMERA Mode
AUTO	AUTO
1/50	1/50
1/120	1/120
1/250	1/250
1/500	
1/1000	
1/2000	

6. **Close the menu.**

- ❍ If the shutter speed is set to 1/500 or higher in CAMERA mode and you switch to CARD CAMERA mode, it automatically changes to 1/250.
- ❍ Do not point the camcorder directly at the sun when the shutter speed is set to 1/1000 or higher.
- ❍ The image may flicker when recording with high shutter speeds.
- ❍ The setting resets to the auto setting when you switch the program selector to ☐, or change the program AE mode.
- ❍ Guidelines for Recording with High Shutter Speeds:
  - Outdoor sports such as golf or tennis: 1/2000
  - Moving objects such as cars or roller coasters: 1/1000, 1/500 or 1/250
  - Indoor sports such as basketball: 1/120

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Auto Slow Shutter

In Easy Recording mode and when [SHUTTER] is set to [AUTO] in Auto mode, the camcorder uses shutter speeds down to 1/25 in CAMERA mode and 1/12.5 in CARD CAMERA mode. This allows you to record brightly in places with insufficient lighting. However, you can set the camcorder not to use a slow shutter speed.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

CAMERA SETUP » A.SL SHUTTER•ON

Open the menu and select [CAMERA SETUP]. Select [A.SL SHUTTER], set it to [OFF] and close the menu.

❍ When set to [ON], moving subjects may leave a trailing afterimage.
❍ If " " (camcorder shake warning) appears in CARD CAMERA mode, stabilise the camcorder, for example, by mounting it on a tripod or placing it on a table.

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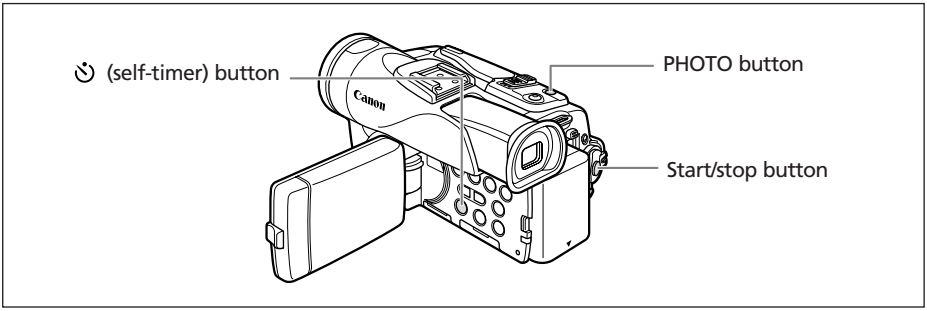
Using the Self-Timer

The self-timer can be used for recording movies and still images.

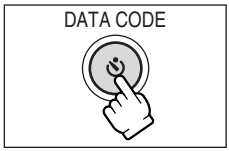


CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

When recording movies

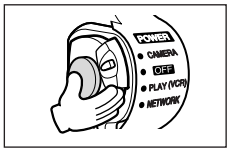
1. Press the (self-timer) button.

" " appears.



2. Press the start/stop button.

- The camcorder starts recording after a 10-second countdown (2 seconds when using the wireless controller). The count down appears on the screen.
- To record a still image, press the PHOTO button (96).



❍ To cancel the self-timer, press the (self-timer) button. Once the countdown has begun, you can also press the start/stop button (when recording movies) or the PHOTO button (when recording still image) to cancel the self-timer.

❍ The self-timer will be cancelled when you turn off the camcorder.

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Changing the Recording Mode (SP/LP)

You can choose between SP (standard play) and LP (long play). LP extends the tape usage by 1.5 times.

CAMERA | PLAY (VCR) * | CARD CAMERA | CARD PLAY

* MVX250i/MVX200i only.

MENU (📖 37) → VCR SETUP ▶ REC MODE·····SP

To change to LP mode, open the menu and select [VCR SETUP]. Select [REC MODE], set it to [LP] and close the menu.

❍ **Tapes recorded in LP mode cannot be used for audio dubbing (📖 88).**
❍ **Depending on the nature and usage condition of the tape, picture and sound recorded in LP mode may be distorted. We recommend using the SP mode for important recordings.**

❍ If you record in both SP and LP modes on the same tape, the playback picture may become distorted and the time code may not be written correctly.
❍ If you play back a tape that has been recorded in LP mode with another digital device on this camcorder, or vice versa, picture and sound may become distorted.

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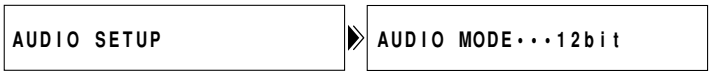
Changing the Audio Mode

You can record sound in two audio modes—16-bit and 12-bit. The 12-bit mode records sound on two channels (stereo 1), leaving 2 channels free (stereo 2) for adding new sound later. Select the 16-bit mode for higher sound quality.

CAMERA | PLAY (VCR) * | CARD CAMERA | CARD PLAY

* MVX250i/MVX200i only.

MENU (📖 37)



Open the menu and select [AUDIO SETUP]. Select [AUDIO MODE], set it to [16bit] and close the menu.

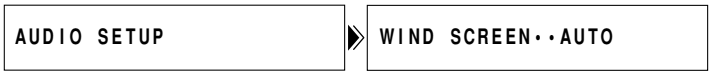
"16bit" appears for approximately 4 seconds.

Wind Screen

The camcorder reduces wind noise automatically. However, you can turn off the wind screen when recording indoors, or when you want the microphone to be as sensitive as possible.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)



Open the menu and select [AUDIO SETUP]. Select [WIND SCREEN], set it to [OFF] and close the menu.

"WS OFF" appears when you turn the wind screen off.

- ❍ The wind screen function can only be used with the built-in microphone.
- ❍ The wind screen function can also be used for audio dubbing (when [AUDIO DUB.] is set to [MIC. IN] in the [AUDIO SETUP] submenu).

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Using Headphones during Recording

The headphones terminal also serves as AV terminal. Headphones can only be used when "🎧" is displayed on the screen. If not, change the setting following the procedure below.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

VCR SETUP ▶ AV/PHONES 🎧 ··AV

Open the menu and select [VCR SETUP]. Select [AV/PHONES 🎧], set it to [PHONES 🎧] and close the menu.

Adjusting the Headphone Volume

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

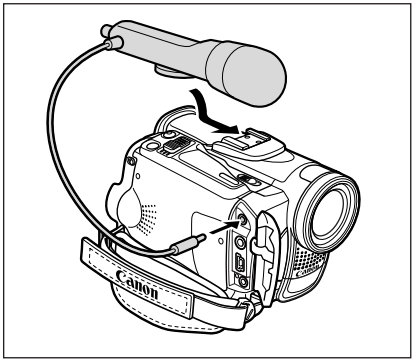
AUDIO SETUP ▶ 🎧VOLUME·····

Open the menu and select [AUDIO SETUP]. Select [🎧 VOLUME], adjust the volume with the SET dial and close the menu.

You can turn off the volume completely by turning the SET dial down until [OFF] appears. Turn the SET dial up to increase the volume again.

MVX250i Recording with an External Microphone

You can attach a commercially available microphone or the optional DM-50 Directional Stereo Microphone to the accessory shoe. Refer also to the instruction manual of the microphone.



1. **Attach the microphone to the accessory shoe.**
2. **When using a commercially available microphone, connect it to the MIC terminal.**

❍ When recording in silent places, the built-in microphone may pick up the motor noise of the camcorder. In such case, we recommend using an external microphone.

❍ When using a commercially available microphone:

- Use a microphone with built-in power supply (condenser microphone). Almost all stereo microphones with a plug diameter of 3.5 mm can be connected. The audio level may differ from that of the built-in microphone.
- Long microphones may appear on the screen.

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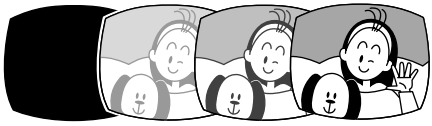
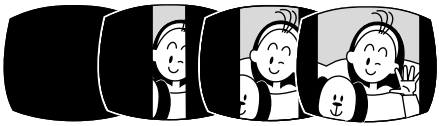
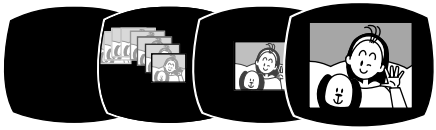
Using Digital Effects

Faders (📖 64)

Begin or end scenes with a fade to or from black.

Fade Trigger (FADE-T) 	The image gradually fades in.
	The image gradually fades out.
Wipe (WIPE) 	The image begins as a vertical line in the centre and expands sideways until it fills the whole screen.
	The image is wiped off from the sides of the screen.
Corner Wipe (CORNER)	The image appears from the corners until it fills the whole screen.
	The image is wiped off from the corners.
Jump (JUMP) 	A small image appears from the left, jumps into the centre and enlarges until it fills the whole screen.
	The image shrinks, jumps from the centre to the left and disappears.
Flip (FLIP)	The image flips into the screen.
	The image flips out of the screen.

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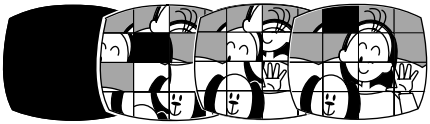
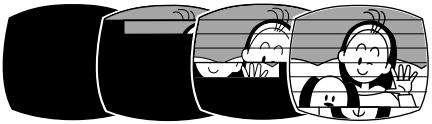
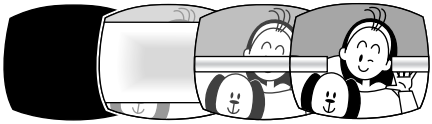
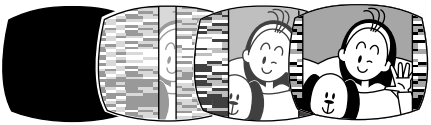
Puzzle (PUZZLE) 	The image appears in 16 pieces. The pieces move around until the puzzle is solved.
	The image is divided into 16 pieces. The pieces move around and disappear.
Zigzag (ZIGZAG) 	The image appears in zigzag from the top of the screen.
	Black stripes appear in zigzag from the bottom of the screen until they cover the whole image.
Beam (BEAM) 	The screen turns yellow, forms a beam that becomes thinner and the image appears.
	A yellow beam appears in the centre of the screen and expands until it covers the whole image.
Tide (TIDE) 	The image appears from both sides like tides.
	The image disappears from both sides like tides.

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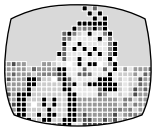
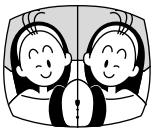
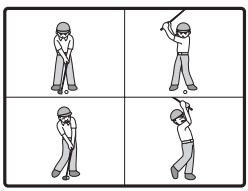
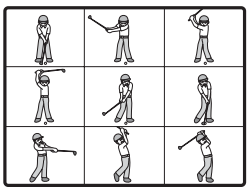
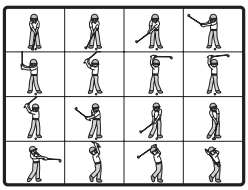
Effects (📖 65)

Add flavour to your recordings.

Art (ART) The image becomes like a paint (solarization). 	**Black and White (BLK & WHT)** The image becomes black and white. 	**Sepia (SEPIA)** The image becomes monochrome with a brownish tint.
Mosaic (MOSAIC) The image is blurred through enlarging the size of some pixels. 	**Ball (BALL)** The image becomes like a ball. 	**Cube (CUBE)** The image becomes a cube and rotates.
Wave (WAVE) Both ends of the image sway in waves. 	**Color Masking (COLOR M.)** The image becomes a rhombus surrounded by a masking frame that changes the colours. 	**Mirror (MIRROR)** Creates a symmetrical image as if there would be a mirror in the centre of the screen. 

Multi-Image Screen (📖 66)

Captures moving subjects in 4, 9 or 16 sequences of still images and displays them at one time. Sound will be recorded normally.

4 Sequences	9 Sequences	16 Sequences
		

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Availability of Digital Effects by Operating Modes:

	CAMERA		PLAY (VCR)	CARD CAMERA	CARD PLAY
	Movies	Still Images			
Faders	○	×	○	×	×
Effects	○	×	○	○*	×
Multi-image screen	○	×	○	×	×

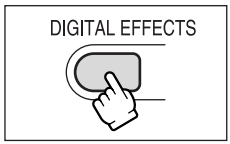
○: Available ×: Not available
* : Black and White only.

Selecting a Fader

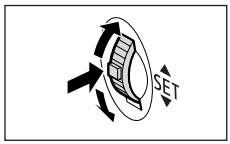
In CAMERA mode, set the program selector to P.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

1. Press the DIGITAL EFFECTS button.
[D.EFFECT OFF], [FADER], [EFFECT] and [MULTI-S] appear.

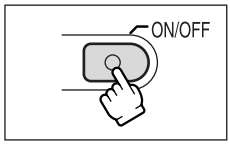


2. Select [FADER].
3. Select the fader option.
4. Press the DIGITAL EFFECTS button.
The name of the selected fader flashes.



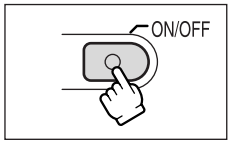
CAMERA mode:

5. Fade in: In record pause mode, press the ON/OFF button and begin recording by pressing the start/stop button.
Fade out: During recording, press the ON/OFF button and pause recording by pressing the start/stop button.
The fader can be activated/deactivated by pressing the ON/OFF button.



PLAY (VCR) mode:

5. Fade in: In playback pause mode, press the ON/OFF button and begin playback by pressing the ▶/❚❚ button.
Fade out: During playback, press the ON/OFF button and pause playback by pressing the ▶/❚❚ button.
The fader can be activated/deactivated by pressing the ON/OFF button.



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Selecting an Effect

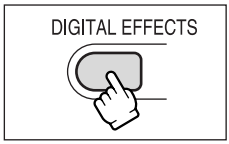
In CAMERA mode, set the program selector to P.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

E

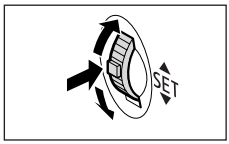
1. Press the DIGITAL EFFECTS button.

[D.EFFECT OFF], [FADER], [EFFECT] and [MULTI-S] appear.



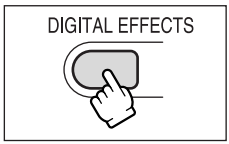
2. Select [EFFECT].

3. Select the effect.



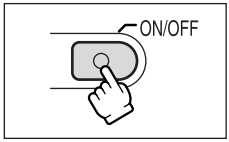
4. Press the DIGITAL EFFECTS button.

The name of the selected effect flashes.



5. Press the ON/OFF button.

- The name of the selected effect stops flashing.
- The effect can be activated/deactivated by pressing the ON/OFF button.

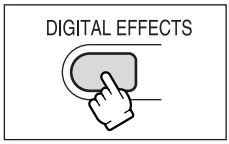


Selecting an Effect in CARD CAMERA Mode

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

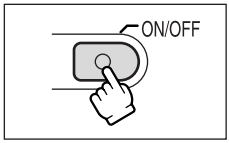
1. Press the DIGITAL EFFECTS button.

"BLK&WHT" flashes.



2. Press the ON/OFF button.

- "BLK&WHT" stops flashing.
- The effect can be activated/deactivated by pressing the ON/OFF button.



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Using the Multi-Image Screen

You can operate the multi-image screen only in the following playback modes:

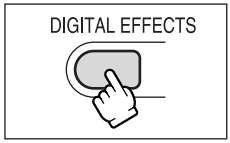
- When [S.SPEED] is set to [MANUAL]: Playback pause, slow forward/reverse playback
- When [S.SPEED] is set to [FAST], [MOD.] or [SLOW]: Playback pause

In CAMERA mode, set the program selector to P.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

1. Press the DIGITAL EFFECTS button.

[D.EFFECT OFF], [FADER], [EFFECT] and [MULTI-S] appear.

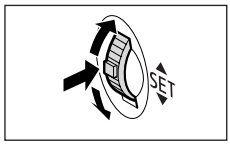


2. Select [MULTI-S].

[S.SPEED] and [S.SPLIT] appears.

3. Select [S.SPEED].

[MANUAL], [FAST], [MOD.] and [SLOW] appear.



4. Select the transition speed.

Following transition speeds can be selected: fast (every 4 frames), moderate (every 6 frames*), slow (every 8 frames*).

* In Low Light mode: moderate (every 8 frames), slow (every 12 frames).

5. Select [MULTI-S] again.

[S.SPEED] and [S.SPLIT] appears.

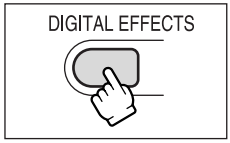
6. Select [S.SPLIT].

[4], [9], [16] settings appear.

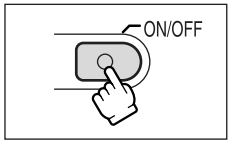
7. Select the number of sequences.

8. Press the DIGITAL EFFECTS button.

"MULTI-S" flashes.



9. Press the ON/OFF button.



- MANUAL: Images will be captured each time you press the ON/OFF button. The blue frame indicating the next sequence disappears after the last image. To cancel the last captured image, press and hold the ON/OFF button. To cancel the multi-image screen, press and release the ON/OFF button.
- FAST, MODERATE, SLOW: The set number of images will be captured at the set speed. To cancel the multi-image screen, press the ON/OFF button.

10. Press the start/stop button to begin recording.

The multi-image screen is recorded on the tape.

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❍ Turn off the digital effect when you do not use it.
Press the DIGITAL EFFECTS button to open the menu. Select [D.EFFECT OFF] and press the DIGITAL EFFECTS button.

❍ The camcorder retains the setting even if you turn it off or change the program AE mode.

❍ The image quality may be slightly lower with digital effects.

❍ Digital effects cannot be used in the following cases:
- When the program selector is set to ▭.
- During DV dubbing.

❍ Faders cannot be used when Card Mix is activated.

About the multi-image screen:

❍ The multi-image screen cannot be used in the following cases:
- In the night modes.
- When the 16:9 format is selected.
- When Card Mix is activated.

❍ In PLAY (VCR) mode: Pressing any tape operation button (such as play or pause), or performing date search cancels the multi-image screen.

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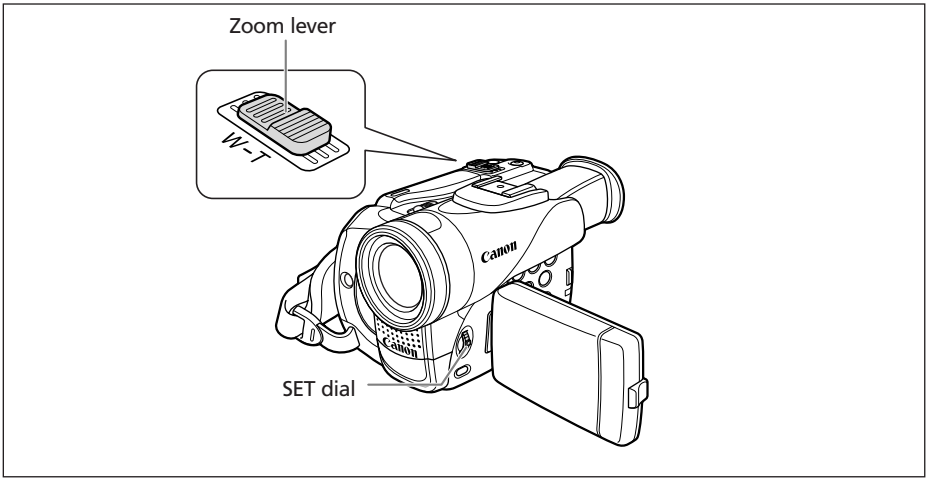
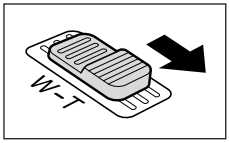
Magnifying the Image

The playback image can be magnified up to 5 times.



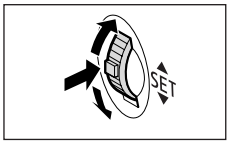
CAMERA | **PLAY (VCR)** | CARD CAMERA | **CARD PLAY**

1. Move the zoom lever toward **T**.



- The image is magnified by 2 times.
- A frame appears indicating the position of the magnified area.
- To further enlarge the image, move the zoom lever toward **T**.
  To shrink the image below 2 times magnification, move the zoom lever toward **W**.

2. Select the magnified area with the SET dial.



- Turn the SET dial to move the image to the right and left, or up and down. Pressing the SET dial switches between the directions.
- To cancel the magnification, move the zoom lever toward **W** until the frame disappears.

Movies played back from a memory card cannot be magnified.

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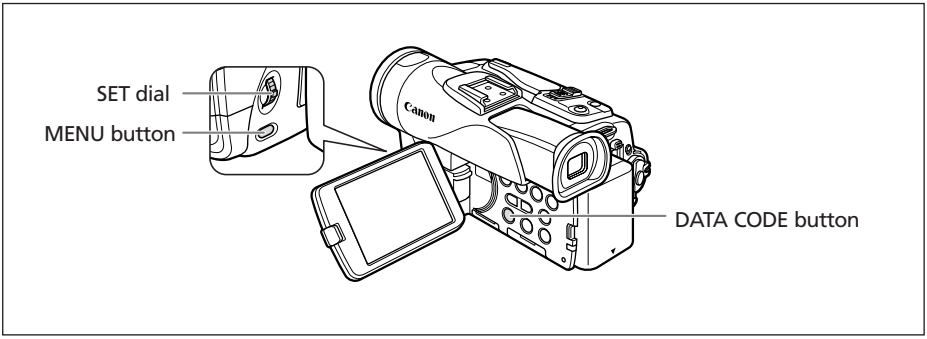
Displaying the Data Code

The camcorder maintains a data code containing recording date and time and other camera data such as shutter speed and exposure (f-stop). When you play back a tape, you can display the data code and select the data code combination you wish to display.



Selecting the Date/Time Display Combination

CAMERA | **PLAY (VCR)** | CARD CAMERA | **CARD PLAY**

MENU (📖 37) DISPLAY SETUP/💬 ▶ D/TIME SEL.••DATE & TIME

Open the menu and select [DISPLAY SETUP/💬]. Select [D/TIME SEL.], set it to [DATE] or [TIME] and close the menu.

Selecting the Data Code Display Combination

CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

MENU (📖 37) DISPLAY SETUP/💬 ▶ DATA CODE••••DATE/TIME

Open the menu and select [DISPLAY SETUP/💬]. Select [DATA CODE], set it to [CAMERA DATA] or [CAM. & D/T] and close the menu.

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Displaying the Data Code

CAMERA | **PLAY (VCR)** | CARD CAMERA | **CARD PLAY**

Press the DATA CODE button.

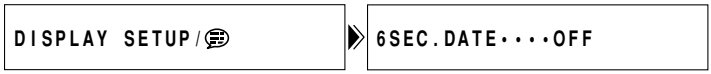
❍ The data code display turns off when you turn the camcorder off.
❍ Only date and time appear in CARD PLAY mode.

Six-Second Auto Date

Date and time appear for 6 seconds when you begin playback, or to indicate that date or time zone has changed.

CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

MENU (📖 37)



Open the menu and select [DISPLAY SETUP/💬]. Select [6SEC.DATE], set it to [ON] and close the menu.

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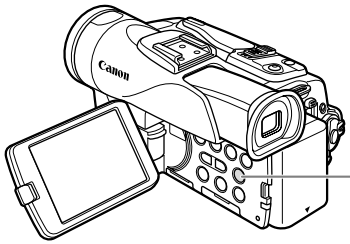
End Search

When you have played back a tape, you can use this function to locate the end of the last recorded scene.



CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

In stop mode, press the END SEARCH button.

- "END SEARCH" appears.
- The camcorder rewinds/fast forwards the tape, plays back the last few seconds of the recording and stops the tape.
- Pressing the button again cancels the search.

❍ End search cannot be used once you unload the cassette.
❍ End search may not work properly if a blank section exists on the tape.
❍ You cannot use end search to locate the editing end of audio dubbing.

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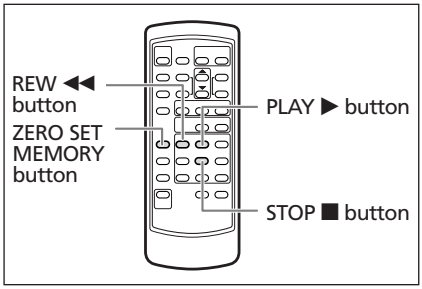
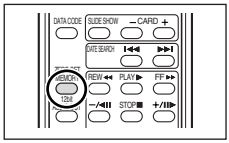
Returning to a Pre-marked Position

If you wish to return to a particular scene later, mark the point with the zero set memory and the tape will stop at that point when you rewind/fast forward the tape. This function is operated with the wireless controller.



CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY



1. Press the ZERO SET MEMORY button at the point you wish to return to later.

- "0:00:00 M" appears.
- To cancel, press the ZERO SET MEMORY button again.

2. When you have finished playback, rewind the tape.

- "◀◀ RTN" appears.
- The tape stops automatically at "0:00:00".
- The tape counter changes to time code.

The zero set memory may not function correctly when the time code has not been recorded consecutively.

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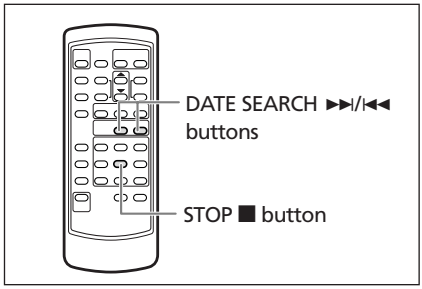
Date Search

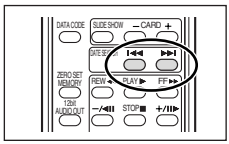
You can locate the change of the date/time zone with the date search function.
This function is operated with the wireless controller.



CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

Press the ▶▶I or I◀◀ button to begin searching.

- Press more than once to search for further date changes (up to 10 times).
- Press the STOP ■ button to stop searching.



❍ A recording of longer than a minute per date/area is required.
❍ Date search may not function if the data code is not correctly displayed.

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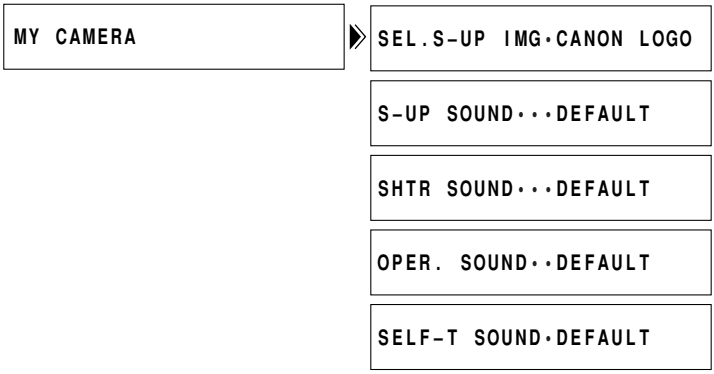
Customizing the Camcorder

You can personalise your camcorder by customizing the start-up image and the sound it makes for start-up, shutter, operation and self-timer (collectively called the My Camera settings).

Changing the My Camera Settings

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)



1. Open the menu and select [MY CAMERA].

2. Select the menu item you wish to change.

When selecting a start-up image, set the camcorder to CARD PLAY mode.

3. Select a setting option and close the menu.

❍ You can save your original images, or the images and sounds contained in the supplied software (ZoomBrowser EX for Windows or ImageBrowser for Macintosh) to the setting options [MY IMAGE] and [MY SOUND]. For details, refer to the *Digital Video Software Instruction Manual*.

❍ You can also create original start-up images (📖 118).

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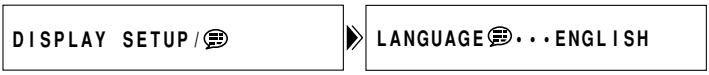
Changing the Display Language

The language used in the camcorder displays and menu items can be changed to German, Spanish, French, Italian, Russian, Simplified Chinese or Japanese.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)



To change the display language, open the menu and select [DISPLAY SETUP/💬]. Select [LANGUAGE💬], select a language and close the menu.

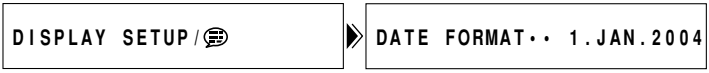
If you have mistakenly changed the language, follow the 💬 mark next to the menu item to change the setting.

Changing the Date Format

You can select between three date formats. For example, [1. JAN. 2004], [JAN. 1, 2004] and [2004. 1. 1].

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)



Open the menu and select [DISPLAY SETUP/💬]. Select [DATE FORMAT], select a format and close the menu.

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Changing the Remote Sensor Mode

Two remote sensor modes and an off setting are available to prevent interference from other Canon wireless controllers being used nearby.

Turning the Remote Sensor Off

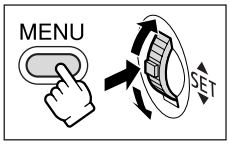
CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

SYSTEM ▶ WL. REMOTE • • • • 1

Open the menu and select [SYSTEM]. Select [WL. REMOTE], set it to [OFF] and close the menu.

" " appears.



Changing the Remote Sensor Mode

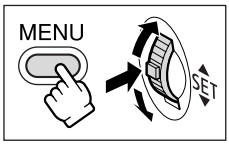
CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

SYSTEM ▶ WL. REMOTE • • • • 1

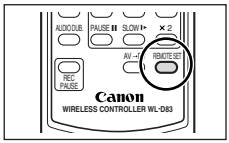
1. **On the camcorder, open the menu and select [SYSTEM]. Select [WL. REMOTE], set it to [2] and close the menu.**

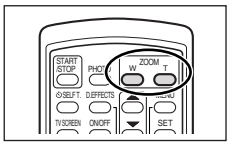
   The selected mode appears for a few seconds.



2. **On the wireless controller, press and hold the REMOTE SET button. Press the ZOOM T button for mode 2. Keep the button pressed for over 2 seconds.**

   If you have set the camcorder to mode 1, press the ZOOM **W** button for mode 1.





- ❍ The wireless controller returns to mode 1 when you replace the batteries. Change the mode if necessary.
- ❍ Make sure that camcorder and wireless controller are set to the same mode. Display the camcorder's mode by pressing any button on the wireless controller (except of the REMOTE SET button) and set the wireless controller's mode to the same mode. Change the batteries if the wireless controller still does not work.

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Other Camcorder Settings

Beep

You will hear a beep upon camcorder operations such as power on/off, start/stop, self-timer countdown, and unusual conditions of the camcorder.
If you turn off the beep, all camcorder sounds including the ones of the My Camera settings will be turned off.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

SYSTEM ▶ BEEP·····ON

To turn the beep off, open the menu and select [SYSTEM]. Select [BEEP], set it to [OFF] and close the menu.

Recording in 16:9 (Widescreen TV Recording)

The camcorder uses the full width of the CCD providing high-resolution 16:9 recording. When you turn off the image stabilizer, you will get a larger horizontal angle of view.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

CAMERA SETUP ▶ 16:9·····OFF

To switch 16:9 on, open the menu and select [CAMERA SETUP]. Select [16:9], set it to [ON] and close the menu.

"16:9" appears.

- ❍ The 16:9 mode cannot be selected in the Easy Recording mode.
- ❍ The multi-image screen cannot be used when the 16:9 format is selected.
- ❍ Simultaneous recording on a memory card cannot be used when the 16:9 format is selected.
- ❍ If you play back a 16:9 recording on a normal TV, the image appears vertically compressed.

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Turning Off the Image Stabilizer

The image stabilizer compensates for camcorder shake even at full telephoto. It tries to compensate for horizontal movements; therefore, you may decide to turn it off when you mount the camcorder on a tripod.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37) → CAMERA SETUP → IMG STAB (✋)•••ON

Open the menu and select [CAMERA SETUP]. Select [IMG STAB (✋)], set it to [OFF] and close the menu.

"(✋)" disappears.

- ❍ The image stabilizer cannot be turned off when the program selector is set to ▭.
- ❍ The image stabilizer is designed to compensate a normal degree of camcorder shake.
- ❍ The image stabilizer might not be as effective when using the night modes.

Demonstration Mode

The demonstration mode displays the camcorder's main features. It starts automatically when you leave the camcorder turned on without loading a recording media for more than 5 minutes. However, you can set the camcorder not to start the demonstration mode.

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

MENU (📖 37) → DISPLAY SETUP/💬 → DEMO MODE••••ON

Open the menu and select [DISPLAY SETUP/💬]. Select [DEMO MODE], set it to [OFF] and close the menu.

To cancel the demo mode once it has begun, press any button, turn off the camcorder or load a recording media.

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MVX250i Using the VFL-1 Video Flash Light (Optional)

The video flash light attaches to the camcorder's advanced accessory shoe for cable-free operation and is powered by the camcorder's power supply.
The video light can be used for recording movies and still images, and the flash for recording still images. As a flash, it can be set to fire automatically or act as a pre-flash to reduce the red-eye effect.
For how to attach the video flash light and how to use the video light, refer to the VFL-1 Video Flash Light instruction manual.

Selecting the Flash Mode

AUTO ⚡A	The flash fires automatically according to the brightness of the subject.
RED-EYE 👁	The flash fires automatically according to the brightness of the subject, and fires a pre-flash for red-eye reduction.
FLASH ON ⚡	The flash always fires.
FLASH OFF	The flash does not fire. Use this setting in places where flash photography is prohibited.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37) → CAMERA SETUP → FLASH · · · · · · · · AUTO ⚡A

1. Set the video flash light's POWER switch to ⚡ ON.

2. Open the menu and select [CAMERA SETUP]. Select [FLASH], select a setting option and close the menu.

The symbol of the selected flash mode appears on the screen. "⚡A" disappears after 4 seconds.

- ❍ Do not fire the flash close to people's eyes.
- ❍ Do not fire the flash at persons while they are driving.
- ❍ Do not fire the flash with the flash bulb covered with your hand.

- ❍ The practical range of the flash is approx. 1 to 2 m. The range depends upon the recording condition.
- ❍ In CAMERA mode, the flash can be used in record pause mode when [STILL I. REC] is set to [FINE] or [NORMAL].
- ❍ The range of the flash decreases in continuous shooting mode.
- ❍ In normal and high-speed continuous shooting mode, images are captured at 2 frames/second when using the flash.

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❍ A pre-flash is fired to obtain the subject's exposure data to adjust the main flash to the optimal intensity (flash exposure compensation). When [RED EYE] is set, the pre-flash fires between the flash for red-eye reduction and the main firing.

❍ The flash will not fire in the following cases:
- When you press the EXP button in [AUTO] or [RED-EYE] mode.
- During auto exposure bracketing (the flash mark appears in purple).
- When a shutter speed of 1/2000 is set in CAMERA mode (the flash mark appears in purple). However, if [FLASH ON] is selected, the shutter speed becomes set to 1/1000 and the flash fires.
- When an abnormality occurs during charging (the flash mark flashes in red).
- When the multi-image screen is selected, when you are recording movies onto a tape or when [STILL I. REC] is set to [OFF] (no flash mark appears).

❍ We recommend not using the flash when the optional Wide-converter or Tele-converter is attached. Their shadows appear on the screen.

❍ The flash mode cannot be selected when exposure is locked, or after the first still image in Stitch Assist mode.

❍ The red-eye reduction mode cannot be used in stitch assist mode.

❍ **About the AF-Assist Lamp:**
When recording still images with flash, the AF-assist lamp (white LED) lights up responding to the brightness of the subject to enable the camcorder to focus more accurately. The AF-assist lamp lights up when you focus manually while the PHOTO button is pressed halfway and turns off after a short time.
- The camcorder may not be able to focus even though the AF-assist lamp is lighting.
- The AF-assist lamp lights up brightly. Consider turning off the AF-assist lamp in public places such as in restaurants or theaters.
- Turn off the AF-assist lamp in places where flash photography is prohibited.

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Recording to a VCR or Digital Video Device

You can copy your recordings by connecting the camcorder to a VCR or a digital video device. If you connect a digital video device, you can copy recordings with virtually no generation loss in image and sound quality.

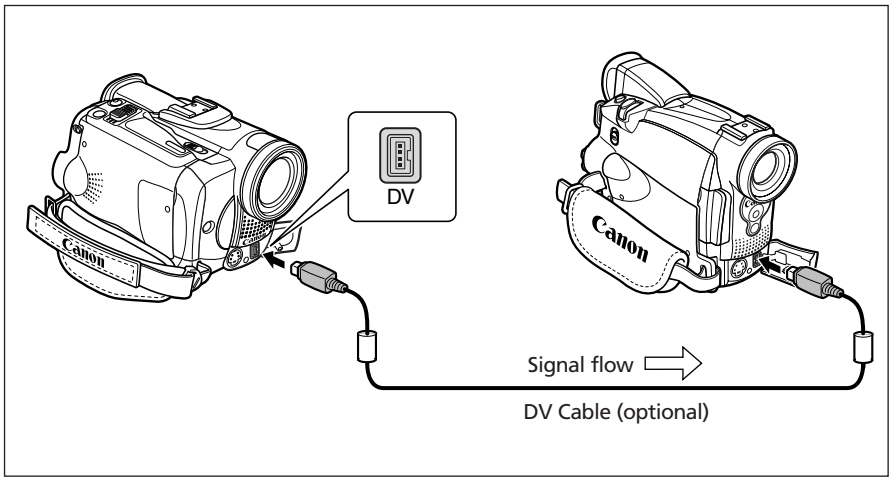
Connecting the Devices

① **Connecting a VCR**

See *Playing Back on a TV Screen* (🕮 33).

② **Connecting a Digital Video Device**

Use the optional CV-150F (4 pin–4 pin) or CV-250F (4 pin–6 pin) DV Cable.
Refer also to the instruction manual of the digital video device.



Recording

CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

1. **Set the camcorder to PLAY (VCR) mode and load a recorded cassette.**
   If you are connecting via AV terminal, check the setting (🕮 33).
2. **Connected device: Load a blank cassette and set the device to record pause mode.**
3. **Locate the scene you wish to copy and pause playback shortly before the scene.**
4. **Play back the tape.**
5. **Connected device: Begin recording when the scene you wish to copy appears. Stop recording when copying is complete.**
6. **Stop playback.**

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❍ When connecting a VCR, the quality of the edited tape will be slightly lower than that of the original.

❍ When connecting a digital video device:

- If the picture does not appear, reconnect the DV cable or turn the camcorder off and back on again.
- Proper operation cannot be guaranteed for all digital video devices equipped with a DV terminal. If operation does not work, use the S-video or AV terminal.

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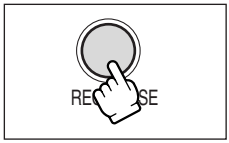
MVX250i/MVX200i Recording from Analog Video Devices (VCR, TV or Camcorder)

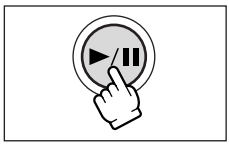
You can record videos or TV programs from a VCR or analog camcorder on the tape in the camcorder.

CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

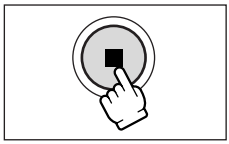
1. **Connect the camcorder to the analog video device.**
   See *Playing Back on a TV Screen* (📖 33).
2. **Set the camcorder to PLAY (VCR) mode and load a blank cassette.**
3. **Connected device: Load the recorded cassette.**
4. **Press the REC PAUSE button.**
   In record pause mode and during recording, you can check the picture on the screen.



5. **Connected device: Play back the tape.**
6. **Press the ▶/❚❚ button when the scene you wish to record appears.**
   Recording starts.



7. **Press the ■ button to stop recording.**
   - Press the ▶/❚❚ button to pause recording.
   - Press the ▶/❚❚ button again to restart recording.
8. **Connected device: Stop playback.**



- ❍ Headphones cannot be used during analog line-in recording.
- ❍ When connecting to a TV/video with SCART terminal, use a SCART adapter with input capability (commercially available). The supplied SCART Adapter PC-A10 is for output only.

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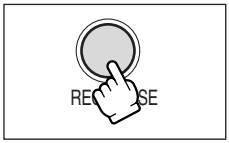
MVX250i/MVX200i Recording from Digital Video Devices (DV Dubbing)

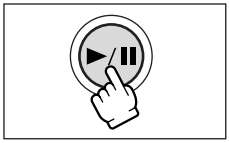
You can record from other digital video devices equipped with a DV terminal with virtually no loss in picture and sound quality.

CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

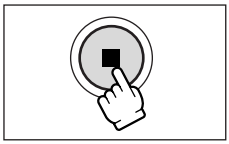
1. **Connect the camcorder to the digital video device.**
   See *Connecting a Digital Video Device* (📖 81).
2. **Set the camcorder to PLAY (VCR) mode and load a blank cassette.**
   Make sure that [AV➡DV OUT] is set to [OFF] (📖 87).
3. **Connected device: Load the recorded cassette.**
4. **Press the REC PAUSE button.**
   In record pause mode and during recording, you can check the picture on the screen.



5. **Connected Device: Play back the tape.**
6. **Press the ▶/❚❚ button when the scene you wish to record appears.**
   Recording starts.



7. **Press the ■ button to stop recording.**
   - Press the ▶/❚❚ button to pause recording.
   - Press the ▶/❚❚ button again to restart recording.
8. **Connected Device: Stop playback.**



- ❍ Blank sections may be recorded as anomalous picture.
- ❍ If the picture does not appear, reconnect the DV cable or turn the camcorder off and back on again.
- ❍ You can only record signals from devices with the DV logo recording in SD system in SP or LP format.

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Concerning Copyright

Copyright Precaution

Certain pre-recorded video tapes, films and other materials, as well as some television programmes are copyrighted. Unauthorised recording of these materials may violate copyright protection laws.

Copyright Signals

During playback: If you try to play back a tape that contains copyright control signals for protection of software, "COPYRIGHT PROTECTED PLAYBACK IS RESTRICTED" appears for a few seconds and the camcorder displays a blank blue screen. You cannot playback the contents of the tape.

During recording: If you try to record from software that contains copyright control signals for protection of software, "COPYRIGHT PROTECTED DUBBING RESTRICTED" appears. You cannot record the contents of the software.
You cannot record copyright protection signals to a tape using this camcorder.

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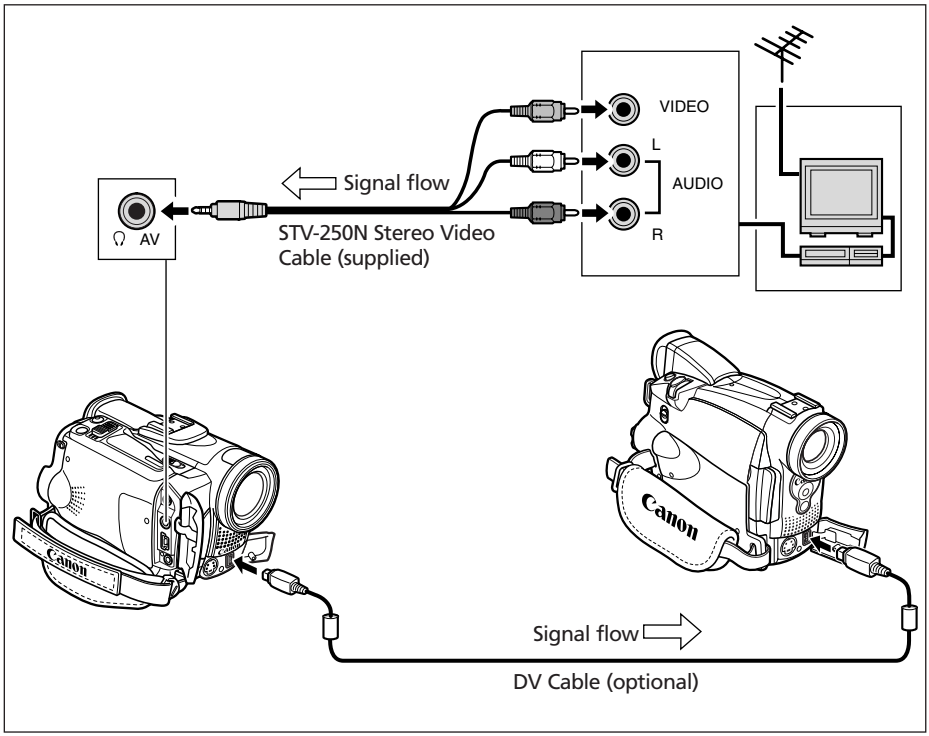
MVX250i/MVX200i Converting Analog Signals into Digital Signals (Analog-Digital Converter)

By connecting the camcorder to a VCR or 8mm video camcorder, you can convert analog video/audio signals to digital signals and output the digital signals via the DV terminal. The DV terminal serves as output terminal only.

Connecting the Devices

Turn off all devices before starting the connections. Unload the tape from the camcorder. Refer also to the instruction manual of the connected device. Use the optional CV-150F (4 pin–4 pin) or CV-250F (4 pin–6 pin) DV Cable.
You can also connect a VCR with S (S1)-VIDEO terminal (📖 35).



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Turning On the Analog-Digital Converter

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

VCR SETUP ➤ AV➡DV OUT····OFF

Open the menu and select [VCR SETUP]. Select [AV➡DV OUT], set it to [ON] and close the menu.

- ❍ Headphones cannot be used during analog-digital conversion.
- ❍ Depending on the signal sent from the connected device, the conversion from analog to digital signals might not work properly (e.g., signals that include copyright protective signals or anomalous signals such as ghost signals).
- ❍ When connecting to a TV/video with SCART terminal, use a SCART adapter with input capability (commercially available). The supplied SCART Adapter PC-A10 is for output only.
- ❍ For normal use, set [AV➡DV OUT] to [OFF]. If it is set to [ON], digital signals cannot be input via the camcorder's DV terminal.
- ❍ Depending on the software and the specifications of your computer, you may not be able to transfer converted signals via the DV terminal.

- ❍ We recommend powering the camcorder from a household power source.
- ❍ You can also press the AV➡DV button on the wireless controller. The setting changes with each press of the button.

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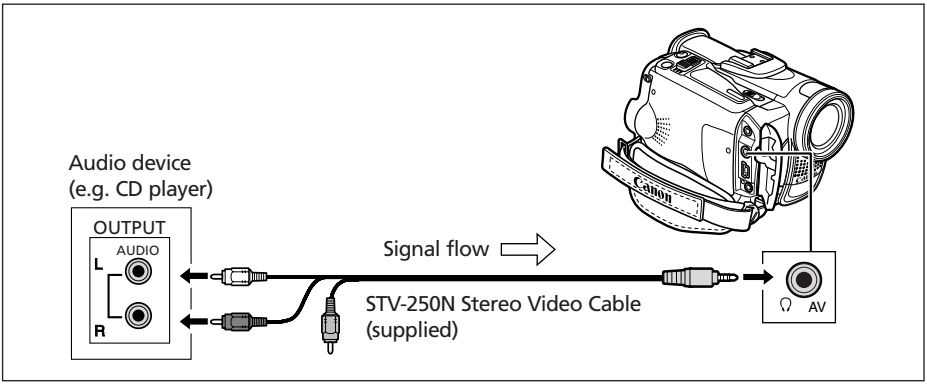
Audio Dubbing

You can add sound with the built-in microphone, from audio devices (MVX250i/MVX200i) or with an external microphone (MVX250i).
This function is operated with the wireless controller.

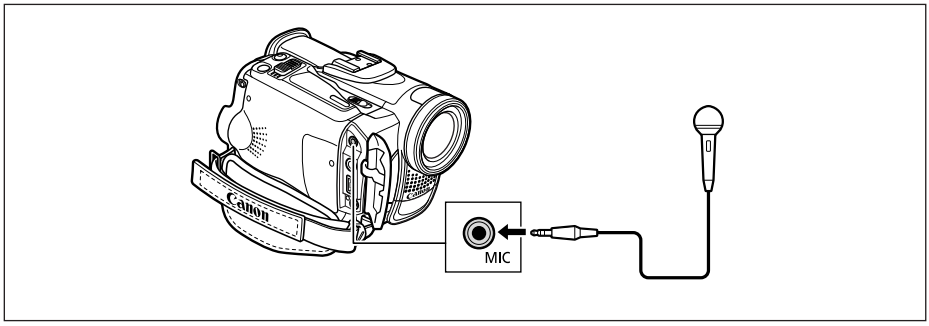
Connecting

① MVX250i/MVX200i Connecting an Audio Device

Refer also to the instruction manual of the connected device.



② MVX250i Connecting a Microphone



When using the built-in microphone, do not connect any cables to the MIC terminal.

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Dubbing

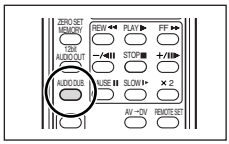
CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

E

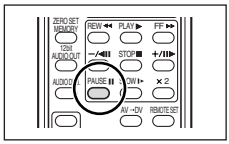
MENU (📖 37)

AUDIO SETUP ▶ AUDIO DUB.•••AUDIO IN

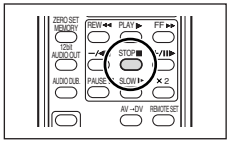
1. **Set the camcorder to PLAY (VCR) mode and load a recorded cassette.**
   Use a tape recorded in SP, 12-bit mode with this camcorder.
2. ***MVX250i/MVX200i*** **Open the menu and select [AUDIO SETUP]. Select [AUDIO DUB.], set it to [AUDIO IN] or [MIC. IN] and close the menu.**
3. **Locate the scene you wish to start audio dubbing.**
4. **Press the PAUSE ❚❚ button on the wireless controller.**
5. **Press the AUDIO DUB. button on the wireless controller.**
   "AUDIO DUB." and " ⏷❚❚" appear.



6. **Press the PAUSE ❚❚ button on the wireless controller to begin dubbing.**
   - Microphone: Speak into the microphone.
   - ***MVX250i/MVX200i*** Audio device: Begin playback.



7. **Press the STOP ■ button on the wireless controller to stop dubbing.**
   MVX250i/MVX200i Audio device: Stop playback.



Editing

❍ Use only tapes recorded in SP mode 12-bit audio sound with this camcorder. Audio dubbing will stop if the tape has a blank section or a section recorded in LP mode or 16-bit mode.
❍ You cannot use the DV terminal for audio dubbing.
❍ If you add sound to a tape not recorded with this camcorder, sound quality may decrease.
❍ Sound quality may decrease when you add sound to the same scene for more than 3 times.

❍ ***MVX250i/MVX200i*** When you connect an audio device, check the picture on the LCD screen and the sound via built-in speaker or audio device. You can also connect a TV via S-video terminal.
❍ When you use the built-in microphone, you can either connect a TV via AV terminal to check the picture, or headphones to check the sound. When you connect a TV via S-video terminal, you can check the picture on the TV screen and the sound with headphones connected to the camcorder.
❍ Set the zero set memory at the end of the scene you wish to dub audio. The camcorder will automatically stop audio dubbing at that point.

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Playing Back the Added Sound

You can select to play back Stereo 1 (original sound), Stereo 2 (added sound), or adjust the balance of both sounds.

CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

MENU (📖 37) AUDIO SETUP ▶ 12bit AUDIO···STEREO1

1. Open the menu and select [AUDIO SETUP]. Select [12bit AUDIO], select a setting and close the menu.

- STEREO 1: Plays back the original sound.
- STEREO 2: Plays back the added sound.
- MIX/FIXED: Plays back Stereo 1 and Stereo 2 in the same level.
- MIX/VARI.: Plays back Stereo 1 and Stereo 2. The mix balance can be adjusted.

2. If you have selected [MIX/VARI.], adjust the mix level: Open the menu and select [AUDIO SETUP]. Select [MIX BALANCE], adjust the balance with the SET dial and close the menu.

Turn the SET dial down to increase the volume of Stereo 1 and up to increase the volume of Stereo 2.

❍ The camcorder resets to [STEREO1] when you turn the camcorder off. However, the mix balance is memorised by the camcorder.

❍ You can also press the 12bit AUDIO OUT button on the wireless controller to select the audio output. However, the mix balance can only be adjusted in the menu.

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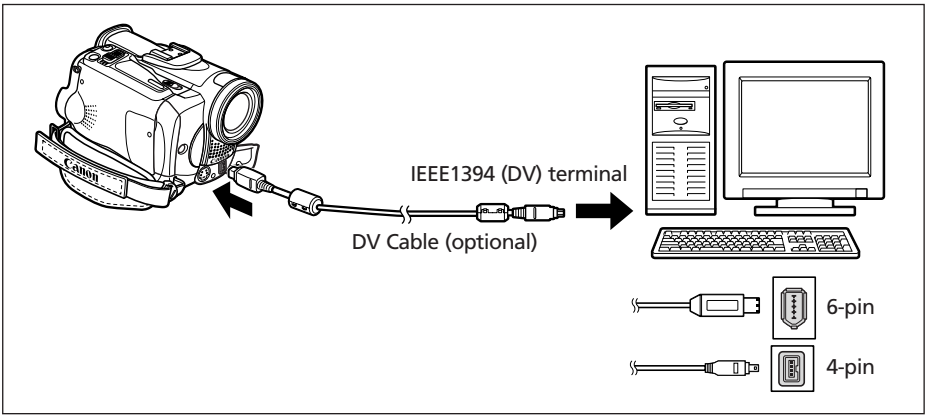
Connecting to a Computer Using a DV (IEEE1394) Cable

You can transfer recordings to a computer equipped with a IEEE1394 (DV) terminal or IEEE1394 capture board. Optional software is required for transferring recordings from the tape to a computer. Refer to the instruction manual of the software.
Use the optional CV-150F (4 pin–4 pin) or CV-250F (4 pin–6 pin) DV Cable.



- ❍ Operation may not work correctly depending on the software and the specifications/settings of your computer.
- ❍ If the computer freezes while you have connected the camcorder, disconnect and reconnect the DV cable. If the problem persists, disconnect the interface cable, turn off camcorder and computer, turn camcorder and computer back on and reconnect them.
- ❍ Do not disconnect the DV cable, open the memory card cover, remove the memory card, change the position of the POWER switch or turn off the camcorder and computer while data is being transferred to the computer (while the camcorder's card access indicator is flashing). Doing so may damage the memory card's data.
- ❍ The image files on your memory card and the image files saved on the hard disk drive of your computer are valuable, original data files. If you wish to use image files on your computer, make copies of them first, and use the copied file, retaining the original.

- ❍ We recommend powering the camcorder from a household power source while it is connected to the computer.
- ❍ Refer also to the instruction manual of the computer.
- ❍ Users of Windows XP can use the supplied DV Network Software. For details, refer to the *DV Network Software Instruction Manual*.

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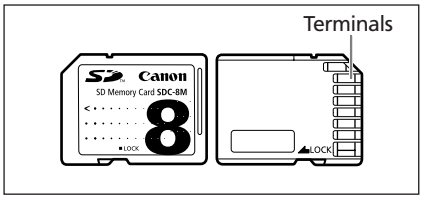
Inserting and Removing a Memory Card

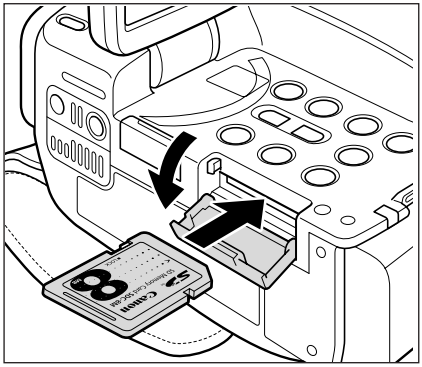
You can use SD Memory Cards or commercially available MultiMediaCards with this camcorder. The SD Memory Card has a protect switch to prevent accidental erasure.



Inserting the Card

1. **Turn off the camcorder.**
2. **Open the cover.**
3. **Insert the memory card all the way into the memory card slot.**
4. **Close the cover.**

   Do not close the cover forcefully without having the card correctly inserted.

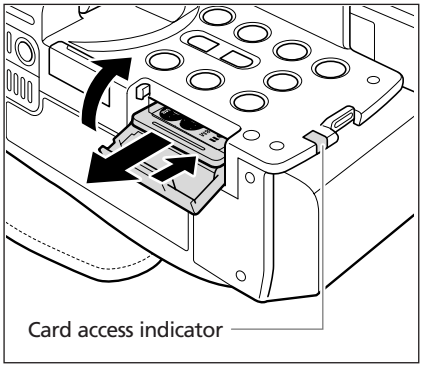


Removing the Card

Do not forcefully remove the memory card without first pushing it in.

1. **Turn off the camcorder.**

   Make sure that the card access indicator is not flashing before you turn off the camcorder.
2. **Open the cover.**
3. **Push the memory card to release it. Remove the memory card.**
4. **Close the cover.**



- ❍ This camcorder is compatible with SD Memory Cards or MultiMediaCards only. Do not use any other types of memory cards.
- ❍ Turn off the camcorder before inserting or removing the memory card. Otherwise, it may result in data damage.
- ❍ If you use memory cards other than the supplied one, make sure to format them with the camcorder (📖 117).

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Selecting the Image Quality/Size

Changing the Still Image Quality

You can choose between Superfine, Fine and Normal.

CAMERA | **PLAY (VCR)** | **CARD CAMERA** | CARD PLAY

MENU (📖 37)

CARD SETUP ▶ IMG QUALITY··FINE

Open the menu and select [CARD SETUP]. Select [IMG QUALITY], set it to [SUPER FINE] or [NORMAL] and close the menu.

Changing the Still Image Size

You can choose between 1280 × 960 pixels and 640 × 480 pixels.

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

MENU (📖 37)

CARD SETUP ▶ IMAGE SIZE···1280×960

Open the menu and select [CARD SETUP]. Select [IMAGE SIZE], set it to [640×480] and close the menu.

❍ Still images are compressed and recorded in the JPEG (Joint Photographic Experts Group) format.

❍ Estimated Capacity of an 8 MB Memory Card:

Image Size / Image Quality	1280 × 960		640 × 480	
	No. of Images	File Size per Image	No. of Images	File Size per Image
Superfine	6	850 KB	34	175 KB
Fine	10	550 KB	50	120 KB
Normal	18	300 KB	84	65 KB

These figures are approximate. They vary according to the recording condition and the subject. Sample images already recorded on the supplied SD Memory Card are to be included in the total number.

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Changing the Movie Size

You can choose between 320 × 240 pixels and 160 × 120 pixels.

CAMERA | **PLAY (VCR)** | **CARD CAMERA** | CARD PLAY

MENU (📖 37)

CARD SETUP ▶ MOVIE SIZE···320×240

Open the menu and select [CARD SETUP]. Select [MOVIE SIZE], set it to [160×120] and close the menu.

❍ Movies are recorded in the Motion JPEG format.
❍ Maximum recording time on a 8 MB SD Memory Card:

Image Size	Max. Recording Time (8 MB)	File Size per Second
320 × 240	approx. 20 sec.	250 KB/sec.
160 × 120	approx. 50 sec.	120 KB/sec.

Approx. 69 min. on a 512 MB SD Memory Card.

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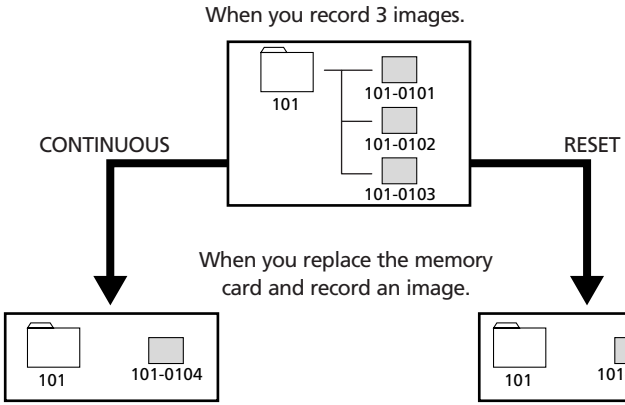
File Numbers

Images are automatically assigned file numbers from 0101 to 9900 and stored in folders containing up to 100 images. Folders are assigned numbers from 101 to 998. (The sample images on the supplied memory card are saved in the [100canon] folder.)

You can choose to use consecutive file numbers (CONTINUOUS) or to reset the file number each time a different memory card is inserted (RESET). We recommend setting the file numbers to CONTINUOUS.

RESET	The file number will be reset each time a new memory card is inserted, starting with 101-0101. If the memory card already contains image files, the consecutive file number will be assigned.
CONTINUOUS	The camcorder memorises the file number of the last image and assigns the consecutive file number to the next image, even when a new memory card is inserted. (If a higher file number already exists on the memory card, the consecutive number will be assigned.) There will be no duplication of file numbers. This is useful for organizing images on a computer.



CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

CARD SETUP ▶ FILE NOS.····CONTINUOUS

To change the setting, open the menu and select [CARD SETUP]. Select [FILE NOS.], set it to [RESET] and close the menu.

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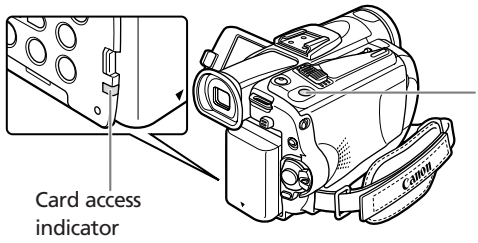
Recording Still Images on a Memory Card

You can record still images with the camcorder or from a tape in the camcorder. With the MVX250i/MVX200i, you can also record from devices connected via the DV terminal or the AV terminal. You can also record a still image on the memory card while you record a movie on the tape.

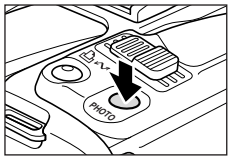


CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

1. Set the camcorder to CARD CAMERA mode.

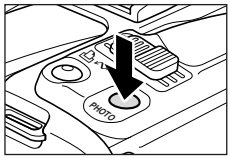
A white focusing frame appears in the centre of the screen. The camcorder will focus on the subject in the centre of the screen. To change the focusing point, see *Selecting the Focusing Point* (📖 103).

2. Press the PHOTO button halfway.



- ⊙ and focusing frame turn green when focus is adjusted. The beep sounds twice. The picture may appear out of focus for a moment while the camcorder is focusing.
- Exposure is locked.
- When you press the PHOTO button on the wireless controller, recording starts immediately.

3. Press the PHOTO button fully.



- ⊙ and focusing frame disappear and you hear a shutter sound.
- The card access indicator flashes and the card access display appears.
- The still image shown on the screen will be recorded on the memory card.

❍ Do not turn off the camcorder, change the position of the TAPE/CARD switch, disconnect the power source, open the memory card cover or remove the memory card while the card access indicator is flashing. Doing so could result in data damage.

❍ When you are using a SD Memory Card, make sure that the protect switch is set to allow recording.

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❍ Connection to a computer or PictBridge compliant printer will not work when the memory card contains more than 1800 images. For best performance, we recommend not recording more than 100 images on the memory card when you plan to connect the camcorder to a computer or printer.
❍ When the subject is too bright, the ND filter turns on automatically ("ND" appears on the screen). If it is still too bright, "OVEREXP" starts flashing. In such case, use the optional FS-34U ND filter. If you wish to turn off the ND filter: Open the menu and select [CAMERA SETUP]. Select [ND], set it to [OFF] and close the menu.
❍ **When the Focus-Priority mode is set to [ON]:**
When you press the PHOTO button fully before ● and focusing frame turn green, it may take up to 2* seconds until focus is adjusted and the still image can be recorded to the memory card.
* Up to 4 seconds in the Low Light and the night modes.
If the subject is not suitable for autofocus, the focusing frame turns yellow and locks the focus. Adjust the focus manually with the SET dial.
❍ **When the Focus-Priority mode is set to [OFF]:**
No focusing frame appears.
In step 2, ● turns green, and focus and exposure are locked.
❍ The camcorder shuts off when you do not operate it for 5 minutes to save power. "⚠AUTO POWER OFF" appears 20 seconds before shutoff. To continue recording, turn the POWER switch to OFF and then back to CAMERA.

Recording a Still Image on a Memory Card While Recording Movies on a Tape

When you are recording a movie on a tape, you can record the same picture as a still image on the memory card. Select the image quality from normal or fine.

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37)

CAMERA SETUP ▶ STILL I. REC•OFF

1. Open the menu and select [CAMERA SETUP]. Select [STILL I. REC], set it to [FINE] or [NORMAL] and close the menu.

2. While you are recording a movie, press the PHOTO button.

❍ The size of the still image will be 640 × 480.
❍ The quality of the still image is slightly lower than a still image recorded in CARD CAMERA mode.
❍ The still image cannot be recorded on a memory card when a fader, effect or the multi-image screen is activated.
❍ The still image cannot be recorded on a memory card when the 16:9 format is selected.
❍ Card mix cannot be used when [STILL I. REC] is set to [FINE] or [NORMAL].
❍ " OFF " appears when you press the PHOTO button when [STILL I. REC] is set to [OFF].

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Recording from a Tape in the Camcorder

CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

1. **Play back the tape.**
2. **Press the PHOTO button halfway when the scene you wish to record appears.**
   - The camcorder pauses playback. The remaining image capacity and other information appear.
   - When you press the PHOTO button on the wireless controller, recording starts immediately.
3. **Press the PHOTO button fully.**
   - The card access indicator flashes.
   - You can also record a still image by pressing the PHOTO button fully when the tape is in playback pause mode.

MVX250i/MVX200i Recording from Other Video Devices

You can record images from devices connected via the S-video terminal or AV terminal (analog line-in function), or via the DV terminal as still images on a memory card. For connecting instructions, refer to page 33 and 81.

CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

1. **Set the camcorder to PLAY (VCR) mode.**
   - If a cassette is loaded, make sure that the tape is stopped.
   - When recording via the AV terminal, make sure that "AV➡DV" is displayed on the screen. When recording via the DV terminal, make sure that "AV➡DV" is not displayed. Change the setting as necessary (📖 87).
2. **Connected device: Load a recorded cassette and play back the tape.**
3. **Press the PHOTO button halfway when the scene you wish to record appears.**
   - The still image, remaining image capacity and other information appear.
   - When you press the PHOTO button on the wireless controller, recording starts immediately.
4. **Press the PHOTO button fully.**

   The card access indicator flashes.

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When recording from a tape in the camcorder or other video devices:

❍ A still image recorded from an image in 16:9 format will be vertically compressed.

❍ The data code of the still image will reflect the date and time it has been recorded on the memory card.

❍ The size of the still image will be 640 × 480.

Screen Displays during Still Image Recording

① Still Image Quality

Indicates the image quality of the still image.

② Remaining Card Capacity for Still Images

- flashing in red: No card
- in green: 6 or more images
- in yellow: 1 to 5 images
- in red: No more images

- The indication may not decrease even though a recording has been made, or may decrease by 2 images at once.
- All indicators are displayed in green when a memory card is played back.

"▶" Card Access Display

Indicates that the camcorder is writing on the memory card.

③ Image Size

Indicates the still image size.

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Reviewing a Still Image Right after Recording

You can select to display a still image for 2, 4, 6, 8 or 10 seconds after it has been recorded.

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

MENU (📖 37)

CAMERA SETUP ▶ REVIEW·····2sec

Open the menu and select [CAMERA SETUP]. Select [REVIEW], select a setting option and close the menu.

- ❍ A still image is displayed as long as you hold the PHOTO button after recording.
- ❍ The FILE OPER. menu appears when you press the SET dial while you are reviewing a still image, or when you press the SET dial right after recording. In this menu, you can protect (📖 111) or erase (📖 112) the image.
- ❍ [REVIEW] cannot be selected when (continuous shooting), (high-speed continuous shooting) or (auto exposure bracketing) is selected.

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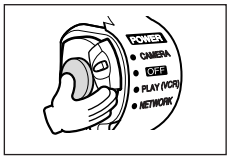
Recording Motion JPEG Movies on a Memory Card

You can record Motion JPEG movies with the camcorder or from a tape in the camcorder. With the MVX250i/MVX200i, you can also record from devices connected via the DV terminal or the AV terminal. The sound of a movie recorded on a memory card will be monaural.

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

1. Press the start/stop button to begin recording.



- With SD Memory Cards up to 512 MB, you can record until "CARD FULL" appears (approx. 69 minutes with a 512 MB SD Memory Card).
- With MultiMediaCards, the recording time is limited to 10 sec. in 320 × 240 pixels and 30 sec. in 160 × 120 pixels.

2. Press the start/stop button to stop recording.

❍ Do not turn off the camcorder, change the position of the TAPE/CARD switch, disconnect the power source, open the memory card cover or remove the memory card while the card access indicator is flashing. Doing so could result in data damage.

❍ When you are using a SD Memory Card, make sure that the protect switch is set to allow recording.

❍ Do not load/unload a cassette during recording.

❍ We recommend using a Canon SD Memory Card, or a SD Memory Card that guarantees a transfer rate of 2 MB/sec., right after you have formatted it with this camcorder. With memory cards not formatted with this camcorder, or when recording/erasing has been repeatedly performed, the writing speed may be lower and recording may stop.

❍ You can select the focusing point when recording a movie on the memory card.

❍ Users of Windows XP: When you plan to connect the camcorder to a computer, keep the length of one movie shorter than approx. 12 min. in 320 × 240 and 35 min. in 160 × 120.

Recording from a Tape in the Camcorder

CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

1. Play back the tape.

2. Press the start/stop button when the scene you wish to record appears.

3. Press the start/stop to stop recording.

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MVX250i/MVX200i Recording from Other Video Devices

You can record movies from devices connected via the S-video terminal or AV terminal (analog line-in function), or via the DV terminal on a memory card.
For connecting instructions, refer to page 33 and 81.

CAMERA | **PLAY (VCR)** | CARD CAMERA | CARD PLAY

1. Set the camcorder to PLAY (VCR) mode.

- If a cassette is loaded, make sure the tape is stopped.
- When recording via the AV terminal, make sure that "AV➡DV" is displayed on the screen. When recording via the DV terminal, make sure that "AV➡DV" is not displayed. Change the setting as necessary (📖 87).

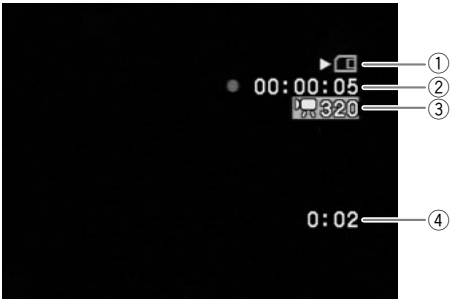
2. Connected device: Load a recorded cassette and play back the tape.

3. Press the start/stop button when the scene you wish to record appears.

4. Press the start/stop button to stop recording.

When recording from a tape in the camcorder or other video devices:
❍ A movie recorded from an image in 16:9 format will be vertically compressed.
❍ The data code of the movie will reflect the date and time it has been recorded on the memory card.
❍ Recording stops at blank sections or recordings in different audio mode (12bit/16bit).

Screen Displays during Movie Recording



① "▶" Card Access Display

Indicates that the camcorder is writing on the memory card.

② Movie recording time

Indicates the recording time of the movie.

③ Image Size

Indicates the movie size.

④ Remaining Card Capacity for Movies

Indicates the remaining time in hours and minutes. At less than 1 minute, the remaining time will be displayed in 10 second-steps, at less than 10 seconds in 1 second-steps.

- The indication varies depending on the recording condition. The actual remaining time may be longer or shorter than indicated.

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Selecting the Focusing Point

The subject you wish to record is not always in the centre of the screen. In the Focus-Priority mode, you can choose from one of three focusing points to automatically put the subject you wish into sharp focus.
When the program selector is set to □, the Focus-Priority becomes set to ON (only the centre focusing point is available).

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

1. Set the program selector to P.

2. Turn the SET dial to display all focusing frames.

Three focusing frames appear on the screen, one of it in green.

3. Turn the SET dial to select the focusing point.

Turn the SET dial up to select the frame to the right, down to select the frame to the left.

- ❍ The focusing frame gives an indication of the focusing point. Depending on the size of the subject or the distance, the camcorder may focus outside the frame.
- ❍ When you operate the zoom lever, the frames other than the selected one disappear.
- ❍ The focusing point can be selected only when Focus-Priority is set to [ON] in CARD CAMERA mode.
- ❍ The focusing point returns to the centre if you turn off the camcorder, change from CARD CAMERA mode or move the program selector to □.
- ❍ The focusing point cannot be selected in the following cases:
  - When using the digital zoom. When you zoom into the digital zoom range, the focusing frame flashes for 4 seconds and disappears. When you return to the optical zoom range, the focusing frame reappears.
  - In Stitch Assist mode.

Turning Off the Focus-Priority Mode

Turn off the Focus-Priority mode if you wish to put timing ahead of focus.

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

MENU (📖 37)

CAMERA SETUP ▶ FOCUS PRI.•••ON

Open the menu and select [CAMERA SETUP]. Select [FOCUS PRI.], set it to [OFF] and close the menu.

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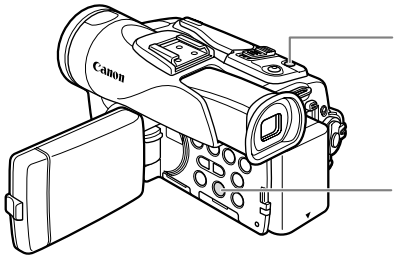
Selecting the Drive Mode

Continuous Shooting	Captures a quick series of still images while you press the PHOTO button (3 frames/sec.).
High-Speed Continuous Shooting	Captures a quick series of still images while you press the PHOTO button (5 images/sec.).
AEB (Auto Exposure Bracketing)	The camcorder records a still image in three different exposures (dark, normal, light in 1/2 EV steps), allowing you to choose the perfect exposed shot.
Single	Records a single still image when you press the PHOTO button.



Changing the Drive Mode

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

Press the DRIVE MODE button to switch between the drive modes.

The setting changes with each press of the button.

Continuous Shooting/High-Speed Continuous Shooting

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

Press and hold the PHOTO button.

A series of still images will be recorded as long as you hold the PHOTO button.

❍ Maximum number of continuous shots at one time:

Still Image Size	Frames per Second		Maximum Number of Continuous Shots
	Normal speed	High speed	
1280 × 960	3 frames	5 frames	10 images
640 × 480	3 frames	5 frames	60 images

These figures are approximate and vary with the recording conditions and subjects.
Sufficient space on the memory card is required. Continuous shooting stops when card is full.

❍ The number of frames per second may be lower when (camcorder shake warning) is displayed on the screen.

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Auto Exposure Bracketing

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

Press the PHOTO button.

Three still images in different exposures are recorded to the memory card.

Make sure that there is sufficient space on the memory card.

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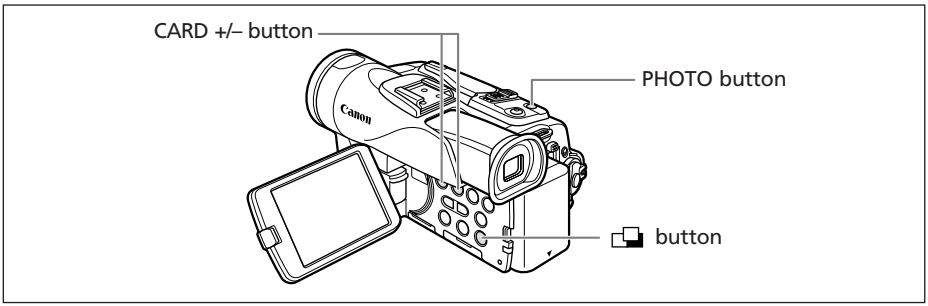
Recording Panoramic Images (Stitch Assist Mode)

You can shoot a series of overlapping images and merge them into one large panoramic scene using the supplied software (PhotoStitch) on a computer.



When Recording in Stitch Assist Mode:

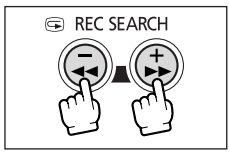
PhotoStitch detects the overlapping portion of adjoining images and merges them. Try to include a distinctive item (landmark, etc.) in the overlapping portion.

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

1. Press the button.

2. Select the direction with the CARD +/– button.

CARD + button: clockwise. CARD – button: anticlockwise.

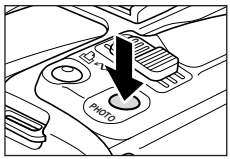


3. Select the program AE mode and zoom on the subject.

Adjust focus and exposure manually as necessary. Once the sequence has started, you cannot change the program AE mode, exposure, zoom or focus.

4. Press the PHOTO button to record the first image.

Direction and number of recorded images appear.



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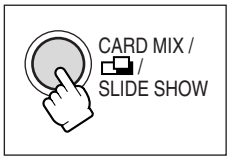
5. Record the second image so that it overlaps a portion of the first image.

- Minor discrepancies in the overlapped area can be corrected with the software.
- You can retake an image by pressing the CARD +/– button to return to the previous image.
- A maximum of 26 images can be recorded.

6. Press the ⧉ button after the last image.

For details on how to merge these images, refer to the *Digital Video Software Instruction Manual*.



❍ Compose each image so that it overlaps 30 to 50% of the adjoining image. Try to keep the vertical misalignment within 10%.
❍ Do not include moving subject in the overlapping portion.
❍ Do not try to stitch images that include both distant and close subjects. They may appear warped or doubled up.

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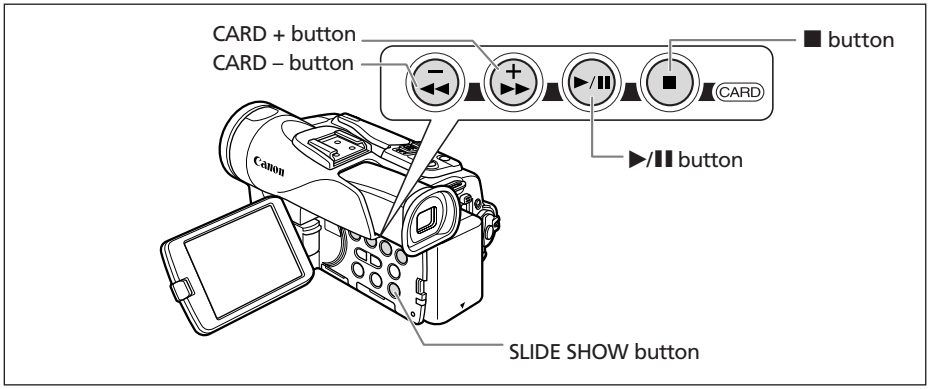
Playing Back a Memory Card

You can display a single image, 6 at one time (index screen 📖 109), or one after another (slide show 📖 109). Use the Card Jump function to quickly locate an image without displaying them one by one (📖 110).

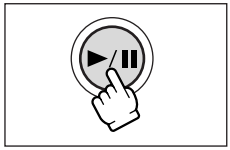


CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

1. Set the camcorder to CARD PLAY mode.

2. Press the CARD +/– button to move between images.

3. To play back a movie, press the ▶/❚❚ button.



- The first scene appears as a still image when playback is complete.
- Pressing the ▶/❚❚ button during playback pauses the playback. Press the ▶/❚❚ button again to restart playback.
- Pressing the ■ button displays the first scene of the movie.
- Press the CARD +/– button (or the REW◀◀ / FF▶▶ button on the wireless controller) for 8× fast forward/fast rewind playback.

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❍ Images not recorded with this camcorder, uploaded from a computer (except the sample images 📖115), edited on a computer and images whose file names have been changed may not be played back correctly.

❍ Do not turn off the camcorder, change the position of the TAPE/CARD switch, disconnect the power source, open the memory card cover or remove the memory card while the card access indicator is flashing. Doing so could result in data damage.

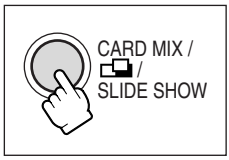
Slide Show

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

1. Press the SLIDE SHOW button.

Images are played back one after another.

2. Press the SLIDE SHOW button to stop the slide show.

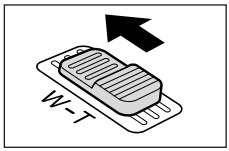


Index Screen

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

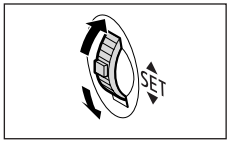
1. Move the zoom lever toward W.

Up to 6 images appear.



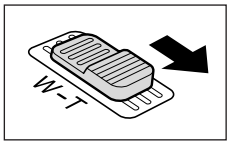
2. Turn the SET dial to select an image.

- Move the ☞ to the image you wish to view.
- You can switch between the index pages by pressing the CARD + or CARD – button.



3. Move the zoom lever toward T.

The index screen is cancelled and the selected image is displayed.



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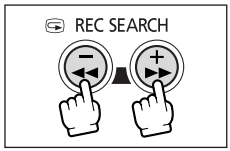
Card Jump Function

You can locate images without displaying them one by one. The number in the upper right of the screen indicates the image number of the current image by the total number of images.

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

Press and hold the CARD + or CARD – button.

When you release the button, the image of the displayed image number appears.



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Protecting Images

You can protect important images from accidental erasure when displaying a single image or index screen.

If a memory card is formatted, all still images and movies, even protected ones, will be erased permanently.

❍ The sample images recorded on the supplied SD Memory Card are already protected.

❍ Movies can only be protected when the first scene is displayed as a still image.

CAMERA | PLAY (VCR) | **CARD CAMERA** | **CARD PLAY**

1. Select the image you wish to protect.

2. Press the SET dial to open the FILE OPER. menu.

In CARD CAMERA mode, the menu appears when you press the SET dial while you are reviewing a still image, or when you press the SET dial right after recording.

3. Select [🔑 PROTECT].

- "🔑" appears and now the image cannot be erased.
- To cancel the protection, press the SET dial.

4. Select [⬅ RETURN] to close the menu.

Protecting during Index Screen Display

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

MENU (📖 37) → CARD OPERATIONS → ➡🔑 PROTECT

1. Move the zoom lever toward W.

- Up to 6 images appear.
- Select the image you wish to protect.

2. Open the menu and select [CARD OPERATIONS]. Select [➡🔑 PROTECT] and press the SET dial.

- "🔑" appears on the image.
- To cancel the protection, press the SET dial.

3. Close the menu.

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Erasing Images

You can erase images singly or all at once.

Be careful when erasing images. Erased images cannot be recovered.

❍ Protected images cannot be erased.
❍ Movies can only be erased when the first scene is displayed as a still image.

Erasing a Single Image

CAMERA | PLAY (VCR) | **CARD CAMERA** | **CARD PLAY**

1. Select the image you wish to erase.

2. Press the SET dial to open the FILE OPER. menu.

In CARD CAMERA mode, the menu appears when you press the SET dial while you are reviewing a still image, or when you press the SET dial right after recording.

3. Select [IMAGE ERASE].

- "ERASE THIS IMAGE?", [NO] and [YES] appears.
- If an image is protected, [YES] appears in purple.

4. Select [YES].

The image is erased and the previous image appears.

5. Select [⬅ RETURN] to close the menu.

Erasing a Single Image/All Images

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

MENU (📖 37)

CARD OPERATIONS ▶ IMAGE ERASE

1. Open the menu and select [CARD OPERATIONS].

2. Select [IMAGE ERASE].

3. Select [SINGLE] or [ALL].

- When erasing a single image: "ERASE THIS IMAGE?" [NO] and [YES] appears. If an image is protected, [YES] appears in purple.
- When erasing all images: "ERASE ALL IMAGES? [EXCEPT FOR 🔑 IMAGES]", [NO] and [YES] appears.

4. Select [YES] and close the menu.

- When erasing a single image: The image is erased and the previous image appears. To erase another image, select the image with the CARD +/– button and select [YES].
- When erasing all images: All still images or movies with exception of the protected ones are erased.

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Combining Images (Card Mix)

You can produce effects not possible with just a tape with the Card Mix function. Choose one of the sample images provided on the supplied SD Memory Card (such as picture frames, backgrounds and animations) and combine it with the live video recording.

Card Chroma Key (CARD CHROMA)

Combines frames with your recordings. The live video recording will appear in place of the blue area of the card mix image.
Mix level adjustment: blue area of the still image.

Card Luminance Key (CARD LUMI.)

Combines illustrations or title with your recordings. The live video recording will appear in place of the light area of the card mix image.
Mix level adjustment: light area of the still image.

Camera Chroma Key (CAM. CHROMA)

Combines backgrounds with your recordings. Record your subject in front of a blue curtain, and the subject not blue will be superimposed on the card mix image.
Mix level adjustment: blue area of the live video recording.

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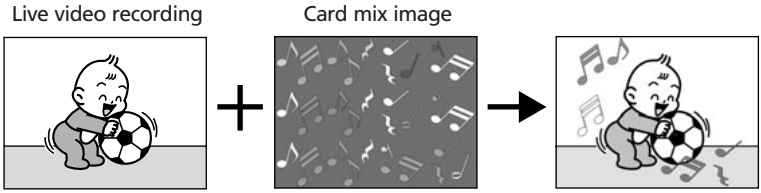
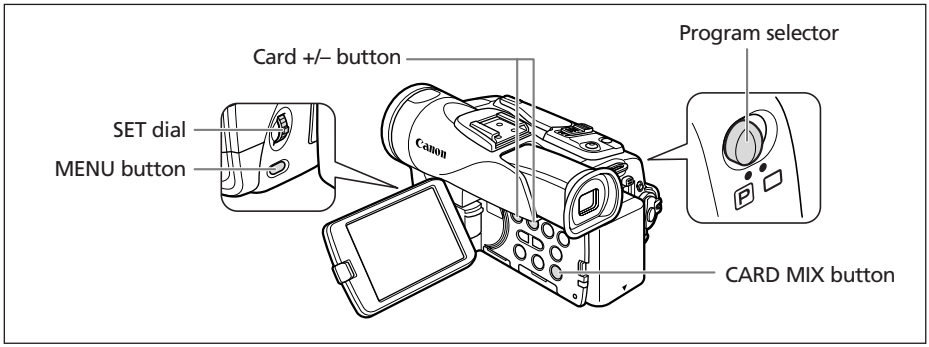
Card Animation (C. ANIMATION)

Combines animations with your recordings. You can choose from 3 types of card animation effects.

- Corner: Animation appears on the upper left and the lower right corner of the screen.
- Straight: Animation appears on the top and bottom of the screen and moves to the right and left.
- Random: Animation moves randomly in the display.

Mix level adjustment: blue area of the card animation image.





Selecting the Card Mix Effect

CAMERA | PLAY (VCR) | CARD CAMERA | CARD PLAY

MENU (📖 37) → CARD MIX → MIX TYPE·····CARD CHROMA

→ MIX LEVEL···· –+

1. **Set the program selector to P.**
2. **Open the menu and select [➡CARD MIX].**
   The card mix menu appears.
3. **Select the image you wish to combine with the CARD +/– button.**
4. **Select [MIX TYPE].**
   [CARD CHROMA], [CARD LUMI.], [CAM. CHROMA] and [C. ANIMATION] appears.

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5. Select the mix type matching the sample image you have selected.

- The screen shows the combined image.
- When you have selected [C. ANIMATION], select [ANIMAT. TYPE] and select between [CORNER], [STRAIGHT] and [RANDOM].

6. To adjust the mix level, select [MIX LEVEL] and adjust it with the SET dial.

7. Close the menu.

"CARD MIX" flashes.

8. Press the CARD MIX button.

- "CARD MIX" stops flashing.
- The combined image appears.

❍ Card mix cannot be used when [STILL I. REC] is set to [FINE] or [NORMAL].

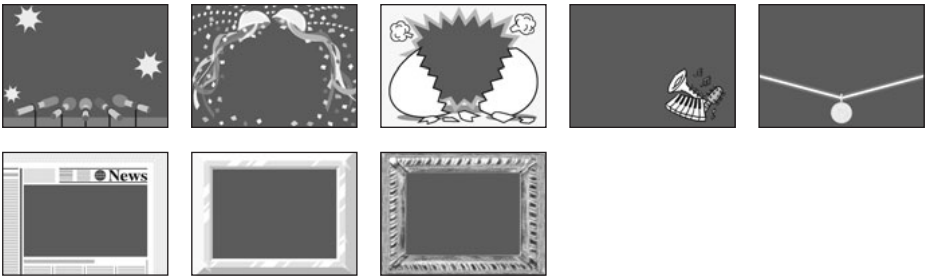
❍ Movies recorded on a memory card cannot be combined with camcorder recordings.

❍ Additional sample images are provided on the supplied DIGITAL VIDEO SOLUTION DISK. Refer to *Adding Still Images from Your Computer to the Memory Card* in the *Digital Video Software Instruction Manual*.

Sample Images

Following sample images are pre-recorded on the supplied SD Memory Card.

Card Chroma Key



Card Luminance Key

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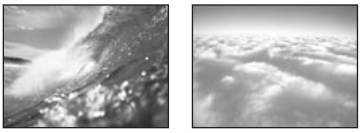
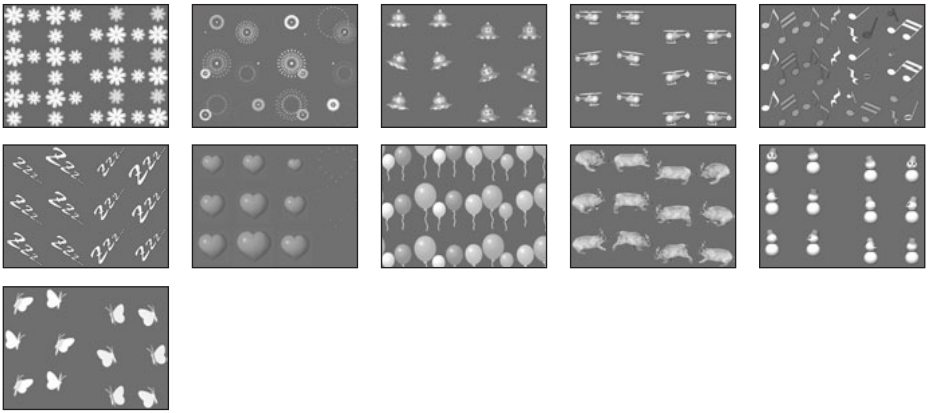
Camera Chroma Key



Card Animation



The sample images recorded on the supplied SD Memory Card are intended only for the personal use with this camcorder. Do not use these sample images for other purposes.

If you have mistakenly erased the sample images on the supplied SD Memory Card, they can be downloaded from the following homepages:
http://www.canon-europe.com/products/products.html
http://www.canon-asia.com/
http://www.canon.com.au
For details on how to add the downloaded images to the memory card, refer to *Adding Still Images from Your Computer to the Memory Card* in the *Digital Video Software Instruction Manual*.

PhotoEssentials – Royalty Free Stock Photography
The PhotoEssentials suite of royalty-free images on CD-ROM features premium quality assignment photography and is ideally suited for use in advertising, brochures, reports, multimedia, websites, books, packaging and more.
For more information, please visit their website www.photoessentials.com

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Formatting a Memory Card

Format new memory cards, or when you get the message "CARD ERROR". You can also format a memory card to erase all images recorded on it.

- ❍ Formatting a memory card erases all data, including protected images.
- ❍ Images erased by formatting cannot be recovered.
- ❍ If you use a memory card other than the supplied one, format it with the camcorder.

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

MENU (📖 37)

CARD OPERATIONS ▶ FORMAT

1. Open the menu and select [CARD OPERATIONS].

2. Select [FORMAT].

[CANCEL] and [EXECUTE] appears.

3. Select [EXECUTE].

[ALL DATA WILL BE ERASED. FORMAT THIS CARD?], [NO] and [YES] appears.

4. Select [YES] and close the menu.

- Formatting starts.
- Selecting [NO] brings you back to step 3.

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Creating a Start-up Image

You can create a start-up image using a still image on the memory card.

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

MENU (📖 37)

MY CAMERA ▶ CREATE START-UP IMAGE

1. **Select a still image with the CARD +/– buttons.**
2. **Open the menu and select [MY CAMERA].**
3. **Select [CREATE START-UP IMAGE].**

   [SET THIS AS START-UP IMAGE?], [YES] and [NO] appears.
4. **Select [YES].**

   [OVERWRITE MY IMAGE?], [NO] and [YES] appears.
5. **Select [YES].**

   The still image will be saved, and the image that was saved to [MY IMAGE] is erased.

Retain the original data of the still image you have set as the start-up image on your computer or removable disk.

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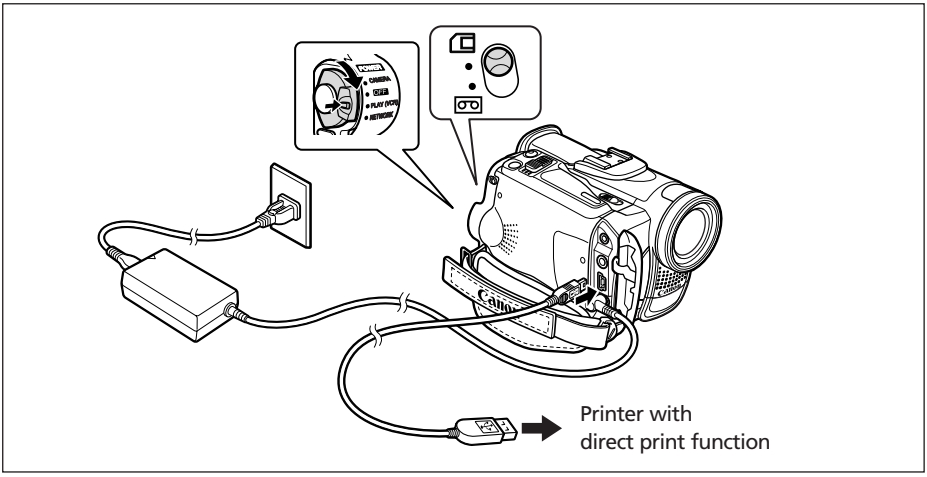
Printing Still Images

You can print still images by connecting the camcorder to a printer with Direct Print function. You can also use the print order settings for direct printing (🕮 128).
Following printers can be connected to your camcorder:

Canon Printers	PictBridge compliant CP Printer	PictBridge
	Bubble Jet Direct compatible Printer	BUBBLE JET DIRECT
	PictBridge compliant Bubble Jet Printer	PictBridge
	CP-10/CP-100 CP-Printer	DIRECT PRINT
PictBridge compliant non-Canon Printer		PictBridge

If your CP-300 is not PictBridge compliant (does not carry the PictBridge logo), upgrade the printer firmware following the instructions on below website to enable use with this camcorder.
http://www.canon.co.jp/Imaging/cp300/cp300_firmware-e.html
If you cannot access the website, please contact:
- ❍ For Europe: A local Canon distributor listed in the Canon European Warranty System List included in the CP-300 kit.
- ❍ For other regions: Canon Customer Support Help Desk listed in the Canon Customer Support Leaflet included in the CP-300 kit.

Connecting the Printer to the Camcorder



1. Turn off the camcorder and insert a memory card that contains still images.

2. Turn on the printer.

3. Set the camcorder to CARD PLAY mode.

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4. Connect the camcorder to the printer using the cable.

- appears and changes to SET, SET or SET when the printer is properly connected to the camcorder. (Does not appear with movies, or still images that cannot be played back with the camcorder.)
- The (print/share) button lights up and the current print setting will be displayed for approx. 6 seconds.

❍ If continues to flash (for more than 1 minute) or if SET, SET or SET does not appear, the camcorder is not correctly connected to the printer. In such case, disconnect the cable from camcorder and printer, turn off camcorder and printer, turn both back on and reconnect the camcorder to the printer.

❍ Do not connect the camcorder to a printer when the camcorder is set to NETWORK mode.

❍ Refer to the instruction manual of each printer for information on which interface cable to use with the camcorder.
The Canon CP-Printers CP-10 and CP-100 are supplied with two direct interface cables. Use the cable with the USB logo on the connector (DIF-100).

❍ We recommend powering the camcorder from a household power source.

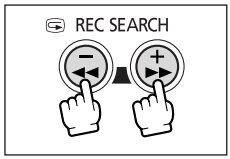
❍ Refer also to the instruction manual of the respective printer.

❍ The print setting menu may differ slightly depending on the connected printer.

Printing

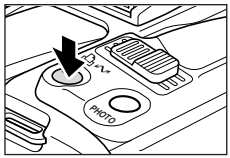
CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

1. Select the still image you wish to print with the CARD +/– button.



2. Press the (print/share) button.

- Printing starts. The button flashes and glows steadily when printing is complete.
- If you wish to continue printing, select another still image with the CARD +/– button.



❍ Observe the following precautions during printing, otherwise printing may not be performed correctly.
- Do not turn off the camcorder or the printer.
- Do not change the position of the TAPE/CARD switch.
- Do not detach the cable.
- Do not open the memory card cover or remove the memory card.

❍ Images not recorded with this camcorder, uploaded from a computer, edited on a computer and images whose file names have been changed may not be printed correctly.

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❍ If the message "BUSY" does not disappear, disconnect the cable from camcorder and printer and reconnect the camcorder to the printer.

❍ **Cancel Printing**

Press the SET dial during printing. A confirmation dialog appears. Select [OK] and press the SET dial.

- Canon Bubble Jet Printer: Printing stops even if it is incomplete and the paper is fed through.
- Canon CP-Printer: A print in progress cannot be stopped. Printing stops when the current print is finished and the remaining prints are cancelled.

❍ **Printing Errors**

If an error occurs during the printing process, an error message appears (📖 140).

- Canon Bubble Jet Printer: Select [STOP] or [CONTINUE] and press the SET dial. With most errors, printing resumes automatically after you correct the error. Refer also to the printer manual for details.
- Canon CP-Printer: Select [STOP] or [RESUME] and press the SET dial. (The [RESUME] setting may not appear with some error messages. In that case, select [STOP].) Refer also to the printer manual for details.
- If the error still persists and printing does not restart, follow below procedure:
  1. Disconnect the cable.
  2. Turn the POWER switch of the camcorder to OFF and back to PLAY (VCR).
  3. Reconnect the cable.

❍ **When you have finished printing:**

1. Disconnect the cable from the camcorder and printer.
2. Turn off the camcorder.

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Selecting the Print Settings

The procedure for selecting the number of copies is common to all printers. Other print setting procedures vary depending on your printer model. Check which icon appears in the upper left corner of the camcorder screen after connecting, and refer to the relevant pages accordingly.

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124

125

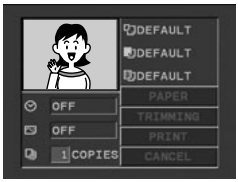
Selecting the Number of Copies

A maximum of 99 copies can be selected for one still image.

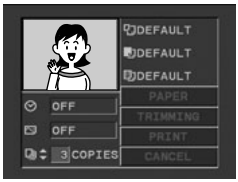
1. Press the SET dial.

- The print setting menu appears.
- Depending on the printer, the message "BUSY." may appear before the camcorder displays the print setting menu.

2. Turn the SET dial to select (COPIES) and press the SET dial.

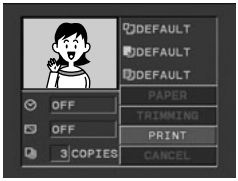


3. Turn the SET dial to select the number of copies and press the SET dial.



4. Turn the SET dial to select [PRINT] and press the SET dial.

Printing starts. The print setting menu disappears when printing is complete.



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SET Setting the Print Style

PAPER	PAPER SIZE	Available paper sizes vary depending on the printer model.
	PAPER TYPE	PHOTO, FAST PHOTO, DEFAULT
	PAGE LAYOUT	BORDERLESS, BORDERED, DEFAULT, 8-UP
Date print		ON, OFF, DEFAULT
Print effect (Image Optimise)		ON, OFF, VIVID, NR, VIVID+NR, DEFAULT

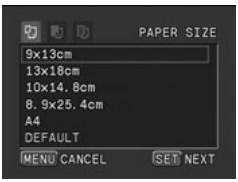
- ❍ Print setting options and [DEFAULT] settings vary depending on the printer model. For details, refer to the instruction manual of your printer.
- ❍ [8-UP] can be selected when using card size paper (5.3 × 8.6 cm) with CP Printers.
- ❍ [BORDERED]: The image area remains relatively unchanged from the recorded image when it is printed. [BORDERLESS]/[8-UP]: The centre portion of the recorded image is printed at an enlarged size. The image's top, bottom and sides may be cropped slightly.
- ❍ Date print cannot be selected with the CP Printers CP-200 and CP-300.
- ❍ [VIVID], [VIVID+NR] and [NR] can be selected with Canon Bubble Jet printers.
- ❍ With CP Printers, make sure to select the paper size of the attached paper cassette.

Paper Settings

1. In the print setting menu, turn the SET dial to select [PAPER] and press the SET dial.

2. Turn the SET dial to select the paper size and press the SET dial.

Select the paper size of the paper set in your printer.



3. Turn the SET dial to select the paper type and press the SET dial.

Select the paper type of the paper set in your printer.

4. Turn the SET dial to select a layout option and press the SET dial.

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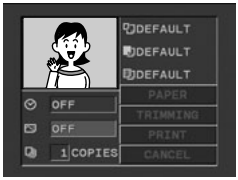
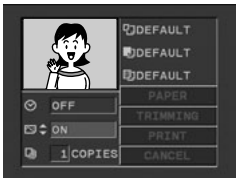
Setting the Print Effect (Image Optimise)

This function uses the camcorder's recording information to optimise the image data, yielding high quality prints.

1. **In the print setting menu, turn the SET dial to select (print effect) and press the SET dial.**

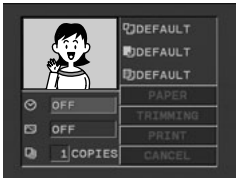


2. **Turn the SET dial to select a setting and press the SET dial.**

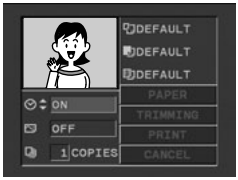


Including the Date in the Print

1. **In the print setting menu, turn the SET dial to select (date) and press the SET dial.**



2. **Turn the SET dial to select a date print option and press the SET dial.**



SET Setting the Print Style

Paper Size		CARD #1*, CARD #2*, CARD #3*, LTR, A4 For details on paper type, refer to the Bubble Jet Printer User Guide.
Borders	Borderless	Prints right to the edges of the page.
	Bordered	Prints with a border.

* Recommended paper size

[BORDERED]: The image area remains relatively unchanged from the recorded image when it is printed. [BORDERLESS]: The centre portion of the recorded image is printed at an enlarged size. The image's top, bottom and sides may be cropped slightly.

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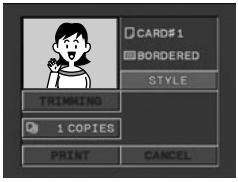
1. **In the print setting menu, turn the SET dial to select [STYLE] and press the SET dial.**



2. **Make sure that (paper) is selected and press the SET dial.**

3. **Turn the SET dial to select the paper size and press the SET dial.**
   - Select the paper size of the paper set in your printer.
   - Pressing the MENU button brings you back to the print settings menu.

4. **Turn the SET dial to select (borders) and press the SET dial.**

5. **Turn the SET dial to select a borders option and press the SET dial.**
   Pressing the MENU button brings you back to the print settings menu.

SET Setting the Print Style

Image	Standard	Prints 1 still image per page.
	Multiple	Prints 8 copies of the same still image on one page.
Borders	Borderless	Prints right to the edges of the page.
	Bordered	Prints with a border.

❍ [BORDERED]: The image area remains relatively unchanged from the recorded image when it is printed. [BORDERLESS]/[MULTIPLE]: The centre portion of the recorded image is printed at an enlarged size. The image's top, bottom and sides may be cropped slightly.
❍ [MULTIPLE] can only be selected when printing on card size paper.
❍ [BORDERS] can only be selected when [IMAGE] is set to [STANDARD].

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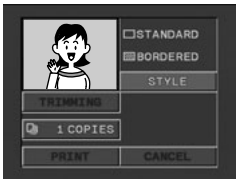
1. **In the print setting menu, turn the SET dial to select [STYLE] and press the SET dial.**



Selecting the Image Style

2. **Make sure that (IMAGE) is selected and press the SET dial.**

3. **Turn the SET dial to select the image style and press the SET dial.**

   Pressing the MENU button brings you back to the print settings menu.

Selecting the Borders

2. **Turn the SET dial to select (BORDERS) and press the SET dial.**

3. **Turn the SET dial to select a borders option and press the SET dial.**

   Pressing the MENU button brings you back to the print settings menu.

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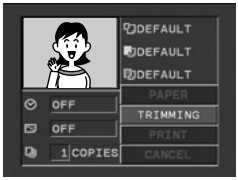
Trimming Settings

Set the print style before you start with the trimming settings.

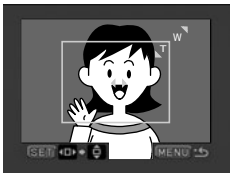
1. In the print setting menu, turn the SET dial to select [TRIMMING] and press the SET dial.

The trimming frame appears.



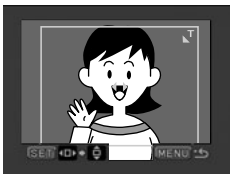
2. Change the size of the trimming frame.

- Move the zoom lever toward **T** to shrink the frame, and toward **W** to enlarge the frame.
- To cancel the trimming settings, move the zoom lever toward **W** until the trimming frame disappears.



3. Move the trimming frame.

- Turn the SET dial to move the frame to the right and left, or up and down. Pressing the SET dial switches between the directions.
- Pressing the MENU button brings you back to the print settings menu.



❍ About the color of the trimming frame (CP-Printers only):
- White: No trimming settings.
- Green: Recommended trimming size. (The trimming frame may not appear in green depending on the image size, paper size or borders settings.)
- Red: The image is magnified beyond recommended size. The image may print out coarsely.

❍ The trimming setting applies only to one image.

❍ The trimming setting is cancelled with the following operations:
- When you turn off the camcorder.
- When you disconnect the interface cable.
- When you expand the trimming frame beyond its maximum size.

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Printing with Print Order Settings

You can select still images for printing and set the number of copies. These print order settings are compatible with the Digital Print Order Format (DPOF) standards and can be used for printing on DPOF compatible printers (📖 119). A maximum of 200 still images can be selected.

Selecting Still Images for Printing (Print Order)

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

1. **Select the still image you wish to print.**
2. **Press the SET dial to open the FILE OPER. menu.**
3. **Select [🖨 PRINT ORDR].**
4. **Select the number of copies.**
   - "🖨" appears on the image.
   - To cancel the print order, set the number of copies to 0.
5. **Select [⬅ RETURN] to close the menu.**

Selecting in Index Screen Display

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

MENU (📖 37) → CARD OPERATIONS → ➡🖨PRINT ORDER

1. **Move the zoom lever toward W.**
   - Up to 6 images appear.
   - Select the image you wish to print.
2. **Open the menu and select [CARD OPERATIONS]. Select [➡🖨 PRINT ORDER].**
3. **Press the SET dial and set the number of copies with the SET dial.**
   - "🖨" appears on the image.
   - To cancel the print order, set the number of copies to 0.
4. **Close the menu.**

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Erasing All Print Orders

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

MENU (📖 37) → CARD OPERATIONS ▶ PRINT ORDERS ALL ERASE

1. Open the menu and select [CARD OPERATIONS].

2. Select [PRINT ORDERS ALL ERASE].

"ERASE ALL PRINT ORDERS?", [NO] and [YES] appears.

3. Select [YES].

All " " disappear.

4. Close the menu.

Printing

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

MENU (📖 37) → ➡PRINT

1. Connect the printer to the camcorder (📖 119).

2. Open the menu and select [➡ PRINT].

- The print setting menu appears.
- "SET PRINT ORDER" appears, when you connect a printer with direct print function and select [➡ PRINT] without having set the print order.

3. Make sure that [PRINT] is selected and press the SET dial.

Printing starts. The print setting menu disappears when printing is complete.

❍ Depending on the connected printer, you can select style or paper settings before step 3.

❍ **Cancel Printing/Printing Errors (📖 121)**

❍ **Restarting Printing**

Open the CARD PLAY menu and select [➡ PRINT]. Select [RESUME] in the print setting menu and press the SET dial. The remaining images will be printed.

Printing cannot be restarted in the following cases:

- When you change the print order settings.
- When you delete a still image with print order settings.

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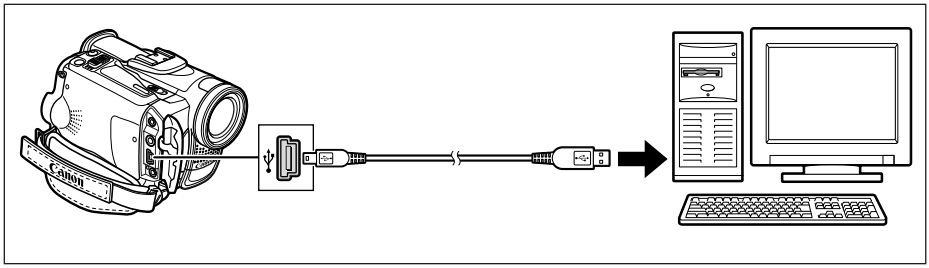
Connecting to a Computer Using a USB Cable

You can download images from the memory card to a computer using the supplied software and USB cable. For details, refer to the *Digital Video Software Instruction Manual*. Users of Windows OS can transfer images by simply pressing the (print/share) button (131).



- ❍ Do not disconnect the USB cable, open the memory card cover, remove the memory card, change the position of the TAPE/CARD switch or turn off the camcorder and computer while data is being transferred to the computer (while the camcorder's card access indicator is flashing). Doing so may damage the memory card's data.
- ❍ Operation may not work correctly depending on the software and the specifications/settings of your computer.
- ❍ The image files on your memory card and the image files saved on the hard disk drive of your computer are valuable, original data files. If you wish to use image files on your computer, make copies of them first, and use the copied file, retaining the original.
- ❍ Make sure that camcorder and computer are not connected with a DV cable before connecting the camcorder to the computer using the USB cable. Otherwise, the computer may not operate properly.

- ❍ We recommend powering the camcorder from a household power source while it is connected to the computer.
- ❍ Refer also to the computer instruction manual.
- ❍ Images recorded on a tape cannot be transferred to a computer via USB interface.
- ❍ Users of Windows XP and Mac OS X:
  Your camcorder is equipped with the standard Picture Transfer Protocol (PTP) allowing you to download still images (JPEG only) by simply connecting the camcorder to a computer via USB cable without installing the software from the DIGITAL VIDEO SOLUTION DISK.

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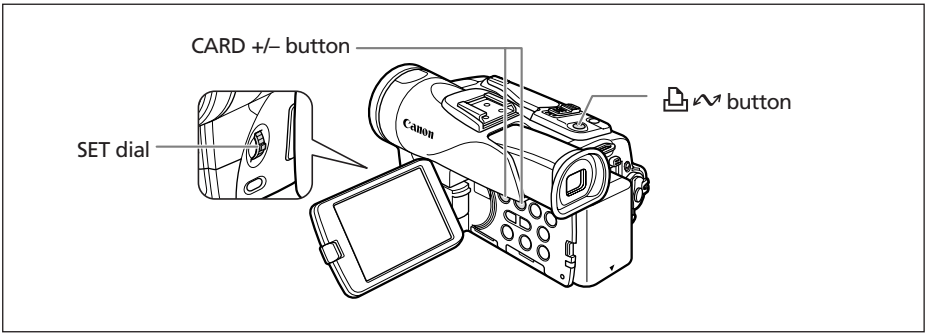
Direct Transfer Windows OS Only

You can transfer images to the computer with the (print/share) button.

ALL IMAGES	Transfers all images to the computer.
NEW IMAGES	Transfers only those images that have not yet been transferred to the computer.
TRANSFER ORDERS	Transfers images with transfer orders to the computer.
SELECT & TRANSFER	Allows you to select an image and transfers the selected image to the computer.
WALLPAPER	Allows you to select a still image and transfers the selected image to the computer as wallpaper.



Preparations

The first time you connect the camcorder to the computer, you need to install the software and set the auto-launch setting.

1. Install the supplied Digital Video Software.

See *Installing the Software* in the *Digital Video Software Instruction Manual*.

2. Connect the camcorder to the computer using the USB cable.

See *Connecting the Camcorder to a Computer* in the *Digital Video Software Instruction Manual*.

3. Set the auto-launch setting.

- Follow the steps 1 to 3 in *Starting ZoomBrowser EX* in the *Digital Video Software Instruction Manual*.
- The direct transfer menu appears on the camcorder screen and the button lights up.

From the second time on, you only need to connect the camcorder to the computer to transfer images.

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Transferring All Images, New Images or Images with Transfer Orders

To transfer images with transfer order, you need to set the transfer orders (📖 134).

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

1. **Turn the SET dial to select [ALL IMAGES], [NEW IMAGES] or [TRANSFER ORDERS].**
2. **Press the button.**
   - The images are transferred to the computer and displayed in the Main Window of ZoomBrowser EX.
   - The camcorder displays the transfer menu when transfer is complete.

Transferring a Selected Image

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

1. **Turn the SET dial to select [SELECT & TRANSFER].**
2. **Press the button.**
3. **Select the image you wish to transfer with the CARD+/– button.**
4. **Press the button.**
   - The selected image is transferred to the computer and displayed in the Main Window of ZoomBrowser EX.
   - Pressing the MENU button brings you back to the transfer menu.
   - To continue transferring, select another image with the CARD+/– button.

Transferring a Still Image as Wallpaper

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

1. **Turn the SET dial to select [WALLPAPER].**
2. **Press the button.**
3. **Select the still image you wish to transfer as wallpaper with the CARD +/– button.**
4. **Press the button.**
   - The selected image is transferred to the computer and displayed on the desktop.
   - Pressing the MENU button brings you back to the transfer menu.

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❍ You can press the SET dial in place of the button. With [ALL IMAGES], [NEW IMAGES] or [TRANSFER ORDERS], a confirmation message appears. Turn the SET dial to select [OK] and press the SET dial.

❍ To cancel transfer, turn the SET dial to select [CANCEL] and press the SET dial, or press the MENU button.

❍ Only still images in JPEG format and movies in Motion JPEG format can be transferred.

❍ When transferring with the button, the camcorder retains the transfer setting even if you turn it off or change the position of the TAPE/CARD switch. When you have selected [SELECT & TRANSFER] or [WALLPAPER], the screen to select a still image appears. Press the MENU button to display the direct transfer menu.

❍ When the protect switch of the SD Memory Card is activated during image transfer, the images will not be marked as "already transferred", and will be transferred again when you select [NEW IMAGES] later.

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Selecting Images for Transfer (Transfer Order)

You can select images for transfer to the computer. These transfer settings are compatible with the Digital Print Order Format (DPOF) standards. A maximum of 200 images can be selected.

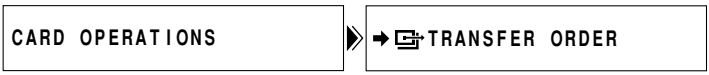
CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

1. **Select the image you wish to transfer.**
2. **Press the SET dial to open the FILE OPER. menu.**
3. **Select [TRANS.ORDER] and press the SET dial.**
   - "TRANS" appears on the image.
   - To cancel the transfer order, press the SET dial again.
4. **Select [RETURN] to close the menu.**

Selecting in Index Screen Display

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

MENU (📖 37)



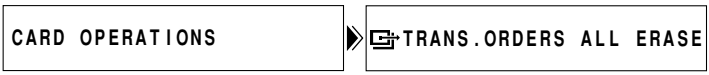
1. **Move the zoom lever toward W.**

   Up to 6 images appear.
2. **Open the menu and select [CARD OPERATIONS]. Select [TRANSFER ORDER].**
3. **Press the SET dial on the image you wish to transfer.**
   - "TRANS" appears on the image.
   - To cancel the transfer order, press the SET dial again.
4. **Close the menu.**

Erasing All Transfer Orders

CAMERA | PLAY (VCR) | CARD CAMERA | **CARD PLAY**

MENU (📖 37)



1. **Open the menu and select [CARD OPERATIONS].**
2. **SELECT [TRANS.ORDERS ALL ERASE].**

   "ERASE ALL TRANSFER ORDERS?", [NO] and [YES] appears.
3. **Select [YES].**

   All "TRANS" disappear.
4. **Close the menu.**

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About the NETWORK Mode

The NETWORK mode is for use with DV Messenger version 2 (Windows XP only). Set the camcorder to NETWORK mode and connect it to the computer using a DV (IEEE1394) cable.

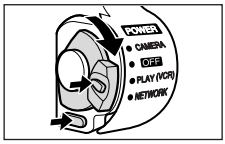
For details on DV Messenger version 2, refer to the *DV Network Software Instruction Manual.*

Connection

1. Install DV Messenger.

2. Connect the power adapter to the camcorder.

3. Press the small button below the POWER switch and turn the POWER switch to NETWORK.



4. Connect the camcorder to the computer using a DV cable.

- "NETWORK MODE" appears on the camcorder screen.
- When you have connected the camcorder to the computer, start DV Messenger. You can now operate the camcorder from the computer using DV Messenger.

❍ When DV Messenger is started and set up for communication, the video picture appears on the computer screen.

❍ In NETWORK mode, the camcorder can only be operated from the computer, except for the following functions:
- When the DV Messenger [CAMERA] control panel is displayed: Zoom and focus (when DV Messenger set to autofocus)
- When the DV Messenger [VCR] control panel is displayed: Volume adjustment of the built-in speaker

❍ The image stabilizer and digital zoom cannot be used with DV Messenger.

❍ The camcorder cannot be operated with the wireless controller.

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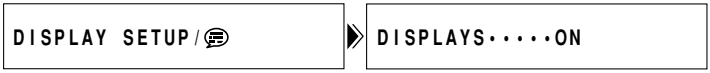
Screen Displays

Hiding the Displays on the LCD Screen

You can hide the displays on the LCD screen to have a clear screen for playback.

CAMERA | **PLAY (VCR)** | CARD CAMERA | **CARD PLAY**

MENU (📖 37)



Open the menu and select [DISPLAY SETUP/💬]. Select [DISPLAYS], set it to [OFF <PLAYBK>] and close the menu.

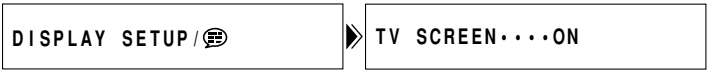
- Warning messages still appear, and the data code appears if turned on.
- Tape operation displays appear for 2 seconds.
- Displays cannot be hidden on the index screen.

Hiding/Showing the Displays on the TV Screen

When you connect a TV for recording, you can select to show the camcorder displays on the TV screen. For playback, you can hide the camcorder displays on the TV screen.

CAMERA | PLAY (VCR) | **CARD CAMERA** | CARD PLAY

MENU (📖 37)

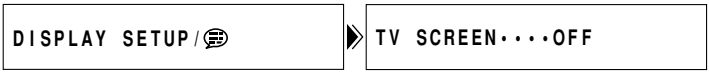


Open the menu and select [DISPLAY SETUP/💬]. Select [TV SCREEN], set it to [OFF] and close the menu.

The displays disappear from the TV screen.

CAMERA | **PLAY (VCR)** | CARD CAMERA | **CARD PLAY**

MENU (📖 37)



Open the menu and select [DISPLAY SETUP/💬]. Select [TV SCREEN], set it to [ON] and close the menu.

The displays appear on the TV screen.

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Screen Displays during Recording/Playback

CAMERA Mode

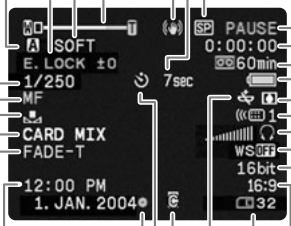


Image stabilizer (📖 78)
Zoom (📖 27)
Skin detail (📖 49)
Exposure (📖 50)
Program AE (📖 44)
Shutter speed (📖 55)
Manual focus (📖 51)
White balance (📖 53)
Card mix (📖 113)
Digital effects (📖 61)
Date and time (📖 19)
AF/AE locked during still image recording (📖 97)
Self-timer (📖 57)
Accessory connected to the Advanced Accessory Shoe (📖 79)
Backup battery (📖 15)

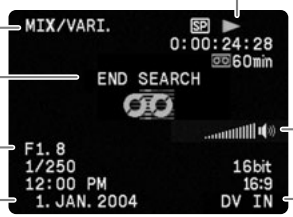
Recording reminder (📖 25)/ Self-timer countdown (📖 57)
Recording mode (📖 58)
Tape operation
Time code
Remaining tape
Remaining battery charge (📖 25)
Condensation warning (📖 144)
Remote sensor mode (📖 76)
Headphones (📖 60)
Wind screen (📖 59)
Audio mode (📖 59)
16:9 mode (📖 77)
Remaining card capacity for still images (📖 97)

PLAY (VCR) Mode

REC PAUSE
STOP
EJECT
▶
FF ▶▶
◀◀ REW

▶▶ / ◀◀ : Fast forward playback/ rewind playback (📖 31)
×2▶ / ◀×2 : ×2 playback (📖 31)
×1▶ / ◀×1 : ×1 playback (📖 31)
▶ / ◀ : Slow playback (📖 31)
▶‖ / ‖◀ : Frame advance playback/ frame reverse playback (📖 31)

▶‖ / ‖◀ : Playback pause (📖 31)
▶▶| / |◀◀ : Date search (📖 73)
RTN ▶▶ / ◀◀ RTN : Zero set memory (📖 72)
● / ●‖ : Audio dubbing (📖 88)



12 bit audio (📖 90)
End search (📖 71)/ Date search (📖 73)/ Audio dubbing (📖 88)
Data code (📖 69)

Volume level of built-in speaker or headphones (📖 32)
DV input (📖 84)

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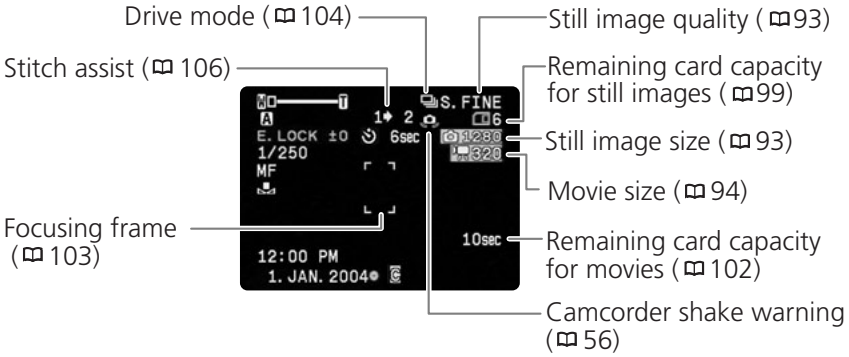
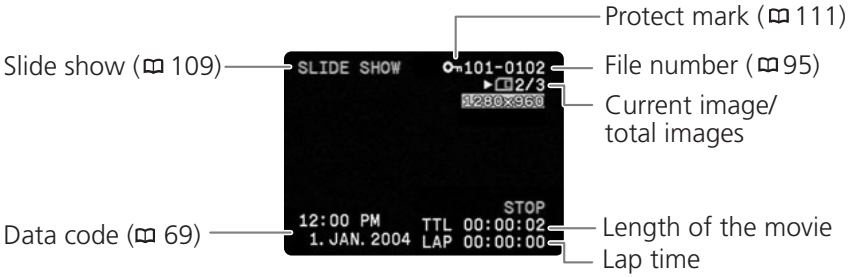
CARD CAMERA Mode



CARD PLAY Mode



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List of Messages

Message	Explanation	🕮
SET THE TIME ZONE, DATE AND TIME	You have not set the time zone, date and time. This message appears each time you turn the power on until you set the time zone, date and time.	19
CHANGE THE BATTERY PACK	Battery pack is exhausted. Replace or charge the battery pack.	11
THE TAPE IS SET FOR ERASURE PREVENTION	Cassette is protected. Replace the cassette or change the position of the protect switch.	146
REMOVE THE CASSETTE	Camcorder stopped operating to protect the tape. Unload and reload the cassette.	14
CHECK THE DV INPUT	DV cable is not connected, or the connected digital device is turned off.	84
CONDENSATION HAS BEEN DETECTED	Condensation has been detected in the camcorder.	144
TAPE END	Tape reached the end. Rewind the tape or replace the cassette.	–
CHECK THE CASSETTE [REC MODE]	You attempted to perform audio dubbing on a tape recorded in a mode other than the SP mode.	88
CHECK THE CASSETTE [AUDIO MODE]	You attempted to perform audio dubbing on a tape recorded in 16-bit or 12-bit 4-channel sound.	88
CHECK THE CASSETTE [BLANK]	You attempted to perform audio dubbing on a tape with a blank section.	88
HEADS DIRTY, USE CLEANING CASSETTE	Video heads are dirty. Clean the video heads.	143
COPYRIGHT PROTECTED PLAYBACK IS RESTRICTED	You attempted to play back a copyright protected tape.	84
COPYRIGHT PROTECTED DUBBING RESTRICTED	You attempted to dub a copyright protected tape. May also appear when an anomalous signal is received during analog line-in recording, or during analog-digital conversion of a copyright protected tape.	84

Memory Card Related Messages

Message	Explanation	🕮
NO CARD	Memory card not is inserted into the camcorder.	92
THE CARD IS SET FOR ERASURE PREVENTION	SD Memory Card is set for erasure prevention. Replace the card or change the position of the protect switch.	92
NO IMAGES	No images are recorded on the memory card.	–
CARD ERROR	A memory card error occurred. The camcorder cannot record or play back the image. The error may be temporary. If the message disappears after 4 seconds and flashes red, turn the camcorder off, remove the card and reinsert the card. If changes to green, you can continue recording/playback.	–
CARD FULL	No remaining capacity on the memory card. Replace with another card or erase images.	–
NAMING ERROR	File or folder number has reached the maximum value.	95

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Message	Explanation	📖
UNIDENTIFIABLE IMAGE	Image is recorded in a not compatible JPEG format or another format not compatible with the camcorder, or the image file is corrupted.	–
TRANSFER ORDER ERROR	You attempted to set more than 200 transfer orders.	134
CANNOT TRANSFER!	You attempted to transfer a movie file as wallpaper.	132
THIS IMAGE CANNOT BE RECORDED	Some analog images cannot be recorded on the memory card depending on the signal.	–
THIS IMAGE CANNOT BE USED AS START-UP IMAGE	You attempted to use an image recorded with another camcorder, recorded in a format not compatible with this camcorder, or that has been edited on a computer.	118
TOO MANY STILL IMAGES DISCONNECT USB CABLE	Disconnect the USB cable and decrease the number of still images on the memory card to less than 1800. If a dialog appeared on the computer screen, close it. Reconnect the USB cable.	–

Direct Print Related Messages

Message	Explanation
PAPER ERROR	There is a problem with the paper. Wrong paper size is inserted, or the ink cannot be used with the selected paper.
NO PAPER	Paper is not correctly inserted or there is no paper.
PAPER JAM	The paper jammed during printing.
PAPER HAS BEEN CHANGED	Paper size has been changed between print setting and start of printing.
MEDIA TYPE ERROR	You attempted to use a paper size/type that is not supported by the printer.
INCOMPATIBLE PAPER SIZE	You attempted to print on paper that cannot be used with the camcorder.
INK ERROR	There is a problem with the ink.
NO INK	The ink cartridge is not inserted or is out of ink.
LOW INK LEVEL	The ink cartridge needs to be replaced soon.
INK CASSETTE ERROR	There is a problem with the ink cassette.
PAPER AND INK DO NOT MATCH	The ink cannot be used with the selected paper type.
WASTE TANK FULL	Waste tank is full. Refer to the instruction manual of your printer.
FILE ERROR	You attempted to print an image that was made with another camcorder, has a different format, or was edited on a computer.
CANNOT PRINT!	You attempted to print an image that was made with another camcorder, has a different format, or was edited on a computer.
COULD NOT PRINT X IMAGES	You attempted to use the print order settings to print X images that were made with another camcorder, have a different format or were edited on a computer.
SET PRINT ORDER	You attempted to print an image from the CARD PLAY menu [➡ PRINT] without having set the print order.
PRINT ORDER ERROR	You attempted to set more than 200 still images in the print order.
CANNOT TRIM	You attempted to trim an image with an image size of 160 × 120, or an image not recorded in the 4:3 ratio.

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Message	Explanation
READJUST TRIMMING	You changed the print style after you set the trimming settings.
PRINTER ERROR	Cancel printing. Turn off the printer and turn it back on. Check the printer status.
PRINT ERROR	Cancel printing and turn off the printer. After a while, turn the printer back on and check its status. When you are printing using the button, check the print settings.
HARDWARE ERROR	Cancel printing. Turn off the printer and turn it back on. Check the printer status.
RECHARGE THE PRINTER BATTERY	The printer battery is depleted.
COMMUNICATION ERROR	The printer is experiencing a data transmission error. Cancel printing, disconnect the USB cable and turn off the printer. After a while, turn the printer back on and reconnect the USB cable. Or, you attempted to print from a memory card that contains a large number of images. Reduce the number of images.
CHECK PRINT SETTINGS	The print setting cannot be used for printing with the button.
PRINTER IN USE	The printer is in use. Check the printer status.
PRINTER WARMING UP	Printer is warming up. If the message does not disappear after a few seconds, check the printer status.
PAPER LEVER ERROR	Paper lever error occurred. Adjust the paper selection lever to the proper position.
PRINTER COVER OPEN	Close the printer cover securely.
NO PRINTHEAD	No print head is installed in the printer or print head is defect. Refer to the instruction manual of your printer.

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Maintenance/Others

Camcorder Handling Precautions

- ❍ Do not carry the camcorder by the LCD panel or viewfinder.
- ❍ Do not leave the camcorder in places subject to high temperatures, such as a sun-heated car, and high humidity.
- ❍ Do not use the camcorder in places subject to magnetic or electric fields such as near the TV transmitters or portable communication devices.
- ❍ Do not point the lens or viewfinder at strong light sources. Do not leave the camcorder pointed at a bright subject.
- ❍ Do not use the camcorder in dusty or sandy places. Dust or sand getting inside the cassette or camcorder may cause damage. Dust and sand can also damage the lens. Attach the lens cap after use.
- ❍ The camcorder is not waterproof. Water, mud or salt getting inside the cassette or camcorder may cause damage.
- ❍ Be careful of heat generated by lighting equipment.
- ❍ Do not disassemble the camcorder. If the camcorder does not function properly, consult qualified service personnel.
- ❍ Handle the camcorder with care. Do not subject the camcorder to shocks or vibration as this may cause damage.
- ❍ Avoid sudden changes in temperature. Moving the camcorder rapidly between hot and cold temperatures may cause condensation to form on its internal surfaces (🕮 144).

Storage

- ❍ If you do not intend to use the camcorder for a long time, store it in a place free of dust, in low humidity, and at temperatures not higher than 30 ˚C.
- ❍ After storage, check the functions of your camcorder to make sure that the camcorder is still working properly.

Cleaning

Camcorder Body and Lens

- ❍ Use a soft, dry cloth to clean the camcorder body and lens. Never use chemically treated cloth or volatile solvents such as paint thinner.

LCD Screen

- ❍ Clean the LCD screen using a commercially available cleaning cloth for glasses.
- ❍ Condensation may form on the surface of the screen when the temperature changes suddenly. Wipe it with a soft dry cloth.

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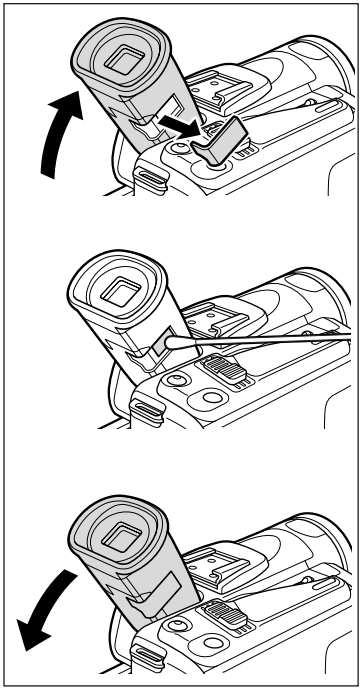
❍ At cold temperatures, the screen may be darker than usual. This is not a malfunction. The screen returns to normal when the camcorder warms up.

Viewfinder

❍ Move the viewfinder upward. Remove the protect cover and clean the glass with a cotton swab. Reattach the protect cover when finished.

❍ Be careful not to scratch the glass when cleaning.



Video Heads

❍ When the message "HEADS DIRTY, USE CLEANING CASSETTE" appears, or when the playback picture becomes distorted, the video heads need to be cleaned.

❍ To maintain the best picture quality, we recommend cleaning the video heads frequently with the Canon DVM-CL Digital Video Head Cleaning Cassette or a commercially available dry cleaning cassette.

❍ Tapes already recorded with dirty video heads may not be played back correctly even when you clean the video heads.

❍ Do not use wet type cleaning cassettes as this may damage the camcorder.

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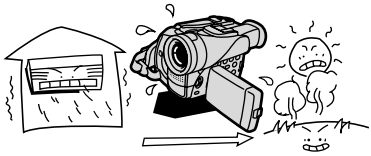
Condensation

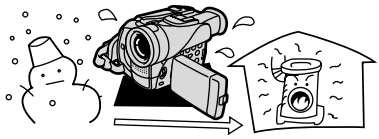
Moving the camcorder rapidly between hot and cold temperature may cause condensation (water droplets) to form on its internal surfaces. Stop using the camcorder if condensation is detected. Continued use may damage the camcorder.

Condensation may form in the following cases:

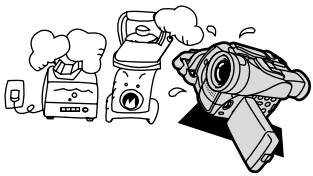
When the camcorder is moved from an air-conditioned room to a warm, humid place



When the camcorder is moved from a cold place to a warm room



When the camcorder is left in a humid room



When a cold room is heated rapidly

How to avoid condensation:

❍ Unload the cassette, place the camcorder in an airtight plastic bag and let it adjust to temperature changes slowly before removing it from the bag.

When condensation is detected:

❍ The camcorder stops operating and the warning message “CONDENSATION HAS BEEN DETECTED” appears for approx. 4 seconds and starts flashing.

❍ If a cassette is loaded, the warning message “REMOVE THE CASSETTE” appears and starts flashing. Remove the cassette immediately and leave the cassette compartment open. Leaving the cassette in the camcorder may damage the tape.

❍ A cassette cannot be loaded when condensation is detected.

Resuming use:

❍ It takes about 1 hour until the water droplets evaporate. After the condensation warning stops flashing, wait for 1 more hour before resuming use.

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Battery Pack Handling Precautions

DANGER!

Treat the battery pack with care.

- Keep it away from fire (or it might explode).
- Do not expose the battery pack to temperature higher than 60 °C. Do not leave it near a heater or inside a car in hot weather.
- Do not try to disassemble or modify it.
- Do not drop or knock it.
- Do not get it wet.

❍ Charged battery packs continue to discharge naturally. Therefore, charge them on the day of use, or the day before, to ensure a full charge.

❍ Attach the terminal cover whenever a battery pack is not in use. Contact to metallic objects may cause a short circuit and damage the battery pack.

❍ Dirty terminals may cause a poor contact between the battery pack and the camcorder. Wipe the terminals with a soft cloth.

❍ Since storing a charged battery pack for a long time (about 1 year) can shorten its lifecycle or affect performance, we recommend to discharge the battery pack fully and to store it in a dry place at temperatures no higher than 30 ˚C. If you do not use the battery pack for long periods, charge and discharge it fully at least once a year. If you have more than 1 battery pack, perform these precautions at the same time for all battery packs.

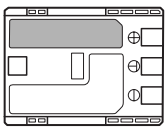
❍ Although the battery pack's operating temperature range is from 0 ˚C to 40 ˚C, the optimal range is from 10 ˚C to 30 ˚C. At cold temperatures, performance will temporarily decline. Warm it in your pocket before use.

❍ Replace the battery pack if the usable time after full charge diminishes substantially at normal temperatures.

About the battery terminal cover

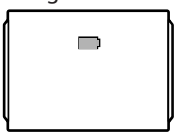
The battery terminal cover has a [▭]-shaped hole. This is useful when you wish to differentiate between charged and uncharged battery packs. For example, with charged battery packs, attach the terminal cover so that the [▭]-shaped hole shows the blue label.

Back side of the battery pack

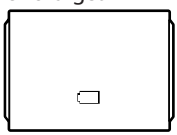


Terminal cover attached

Charged



Uncharged



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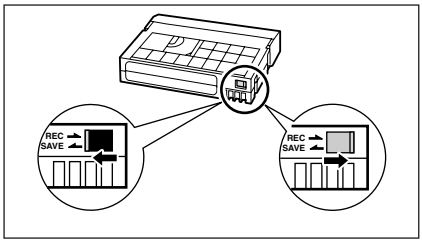
Cassette Handling Precautions

- ❍ Rewind tapes after use. If the tape becomes slack and damaged, it may cause picture and sound distortion.
- ❍ Return cassettes in the case and store them upright.
- ❍ Do not leave the cassette in the camcorder after use.
- ❍ Do not use spliced tapes or nonstandard cassettes as they may damage the camcorder.
- ❍ Do not use tapes that have been jammed as video heads may become dirty.
- ❍ Do not insert anything into the small holes of the cassette, or cover them with cellophane tape.
- ❍ Handle cassettes with care. Do not drop or subject them to severe impact as this may damage the cassettes.
- ❍ Rewind tapes from time to time if they are stored for a long time.
- ❍ With cassettes equipped with a memory function, metal plated terminals may become dirty with use. Clean the terminals with a cotton swab after about 10 times of loading/unloading. The memory function is not supported by the camcorder.

Protecting Tapes from Accidental Erasure



To protect your recordings from accidental erasure, slide the tab on the cassette to the left. (This switch position is usually labelled SAVE or ERASE OFF.)
If you load a protected cassette in CAMERA mode, the message "THE TAPE IS SET FOR ERASURE PREVENTION" appears for approx. 4 seconds and starts flashing. If you wish to record on that cassette, slide the tab back to the right.

Memory Card Handling Precautions

- ❍ Format new memory cards with the camcorder. Memory cards formatted with other devices such as a computer may not operate correctly.
- ❍ We recommend saving backups of memory card images on your computer's hard drive or other external memory device. Image data may be corrupted or lost due to memory card defects or exposure to static electricity. Canon Inc. makes no warranties for corrupted or lost data.
- ❍ Do not turn off the camcorder, disconnect the power source, open the memory card cover or remove the memory card while the card access indicator is flashing.
- ❍ Do not use memory cards in places subject to strong magnetic fields.
- ❍ Do not leave memory cards in places subject to high humidity and high temperature.
- ❍ Do not disassemble memory cards.
- ❍ Do not bend, drop, or subject memory cards to shocks and do not expose them to water.

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❍ Moving a memory card rapidly between hot and cold temperatures may cause condensation to form on its external and internal surfaces. If condensation forms on the card, put it aside until the droplets have evaporated completely.
❍ Do not touch or expose the terminals to dust or dirt.
❍ Check the direction before inserting the memory card. Forcing a memory card backwards into the slot may damage the memory card or the camcorder.
❍ Do not remove the label from the memory card, or affix other labels on the memory card.

Using the Camcorder Abroad

Power Sources

You can use the compact power adapter to operate the camcorder and to charge battery packs in any country with power supply between 100 and 240 V AC, 50/60 Hz. Consult the Canon Service Centre for information on plug adapters for overseas use.

Playback on a TV Screen

You can only play back your recordings on TVs with PAL system. The PAL system is used in the following countries/areas:
Algeria, Australia, Austria, Bangladesh, Belgium, Brunei, China, Denmark, Finland, Germany, Hong Kong Special Administrative Region, Iceland, India, Indonesia, Ireland, Italy, Jordan, Kenya, Kuwait, Liberia, Malaysia, Malta, Mozambique, the Netherlands, New Zealand, North Korea, Norway, Oman, Pakistan, Portugal, Qatar, Sierra Leone, Singapore, South Africa, Spain, Sri Lanka, Swaziland, Sweden, Switzerland, Tanzania, Thailand, Turkey, Uganda, United Arab Emirates, United Kingdom, Yemen, former Yugoslavia, Zambia.

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Troubleshooting

If you have a problem with your camcorder, refer to this checklist. Consult your dealer or a Canon Service Centre if the problem persists.

Power Source

Problem	Cause	Solution	🕮
Camcorder will not turn on.	Battery pack is exhausted.	Replace or charge the battery pack.	11
	Battery pack is not correctly attached.	Attach the battery pack correctly.	11
The camcorder switches off by itself.	Battery pack is exhausted.	Replace or charge the battery pack.	11
	Power save function has been activated.	Turn on the camcorder.	23
Cassette compartment will not open.	Battery pack is exhausted.	Replace or charge the battery pack.	11
	Cassette compartment cover is not fully open.	Open the cassette compartment cover fully.	14
Cassette compartment stopped during loading/ unloading.	Battery pack is exhausted.	Replace or charge the battery pack.	11
	The camcorder malfunctions.	Consult a Canon Service Centre.	–
LCD/viewfinder switches on and off.	Battery pack is exhausted.	Replace or charge the battery pack.	11
Battery pack will not charge.	Battery packs will not charge outside the temperature range of 0 ˚C and 40 ˚C.	Charge the battery pack in temperatures between 0 °C and 40 °C.	–
	Battery packs become hot with use and may not charge.	Wait until the battery pack temperature is below 40 ˚C and retry charging.	–
	The battery pack is damaged.	Use a different battery pack.	–

Recording/Playback

Buttons will not work.	Camcorder is not turned on.	Turn on the camcorder.	22
	Cassette is not loaded.	Load a cassette.	14
flashes on the screen.	Cassette is not loaded.	Load a cassette.	14
flashes on the screen.	Battery pack is exhausted.	Replace or charge the battery pack.	11
flashes on the screen.	Condensation is detected.	See reference page.	144
“REMOVE THE CASSETTE” appears on the screen.	Camcorder stopped operating to protect the tape.	Unload and reload the cassette.	14
The wireless controller will not work.	Camcorder and wireless controller are not set to the same remote sensor mode.	Change the remote sensor modes.	76
	Batteries of the wireless controller are exhausted.	Replace the batteries.	18

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Recording

Problem	Cause	Solution	🕮
Image will not appear on the screen.	Camcorder is not set to CAMERA mode.	Set the camcorder to CAMERA mode.	22
"SET THE TIME ZONE, DATE AND TIME" appears on the screen.	Time zone, date and time are not set, or the backup battery is exhausted.	Set the time zone, date and time, or replace the backup battery and reset the date and time.	19
Pressing the start/stop button will not start recording.	Camcorder is turned off.	Turn on the power.	22
	Cassette is not loaded.	Load a cassette.	14
	Tape reached the end (END flashes on the screen).	Rewind the tape or replace the cassette.	14
	Cassette is protected (flashes on the screen).	Replace the tape or change the position of the protect switch.	146
	Camcorder is set to a mode other than the CAMERA mode.	Set the camcorder to CAMERA mode.	22
Camcorder will not focus.	Autofocus does not work on that subject.	Focus manually.	51
	Viewfinder is not adjusted.	Adjust the viewfinder with the dioptric adjustment lever.	16
	Lens is dirty.	Clean the lens.	142
A vertical light bar appears on the screen.	Bright light in a dark scene may cause a vertical light bar (smear) to appear. This is not a malfunction.	– – –	–
Sound is distorted or recorded in a lower volume than the actual volume.	When recording near loud sound (such as fireworks, drums or concerts), sound may become distorted or may not be recorded in the actual sound level. This is not a malfunction.	– – –	–
Viewfinder picture is blurred.	Viewfinder is not adjusted.	Adjust the viewfinder with the dioptric adjustment lever.	16

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Playback

Problem	Cause	Solution	🕮
Pressing the playback button does not start playback.	Camcorder is turned off, or is not set to PLAY (VCR) mode.	Set the camcorder to PLAY (VCR) mode.	30
	Cassette is not loaded.	Load a cassette.	14
	Tape reached the end (END flashes on the screen).	Rewind the tape.	30
Image will not appear on the TV screen.	[AV/PHONES🎧] is set to [PHONES🎧] in the menu.	Set [AV/PHONES🎧] to [AV] in the menu.	33
	[AV ➡ DV OUT] is set to [ON].	Set [AV ➡ DV OUT] to [OFF].	86
Tape is running, but image will not appear on the TV screen.	TV/VIDEO selector on the TV is not set to VIDEO.	Set the selector to VIDEO.	33
	Video heads are dirty.	Clean the video heads.	143
	You attempted to play back or dub copyright protected tape.	Stop playback/dubbing.	–
No sound from the built-in speaker.	Speaker volume is turned off.	Adjust the volume with the SET dial.	32

Memory Card Operation

Memory card cannot be inserted.	Memory card was not facing the correct direction.	Turn the memory card over and reinsert it.	92
Memory card cannot be recorded.	Memory card is full.	Replace the memory card or erase images.	92
	Memory card is not formatted.	Format the memory card.	117
	Memory card is not inserted.	Insert a memory card.	92
	File number reached maximum value.	Set [FILE NUMBERS] to [RESET] and insert a new memory card.	95
	SD Memory Card is protected.	Change the position of the protect switch.	92
Memory card cannot be played back.	Camcorder is not set to CARD PLAY mode.	Set the camcorder to CARD PLAY mode.	108
	Memory card is not inserted.	Insert a memory card.	92
Image cannot be erased.	Image is protected.	Cancel the protection.	111
	SD memory card is protected.	Change the position of the protect switch.	92
flashes red.	Card error occurred.	Turn off the camcorder. Remove and reinsert the memory card. Format the memory card if flashing persists.	117

Printing

The printer is not operating even though camcorder and printer are correctly connected.	The camcorder is set to NETWORK mode.	1. Set the camcorder to CARD PLAY mode. 2. Disconnect and reconnect the USB cable. 3. Turn off the printer and turn it back on.	–

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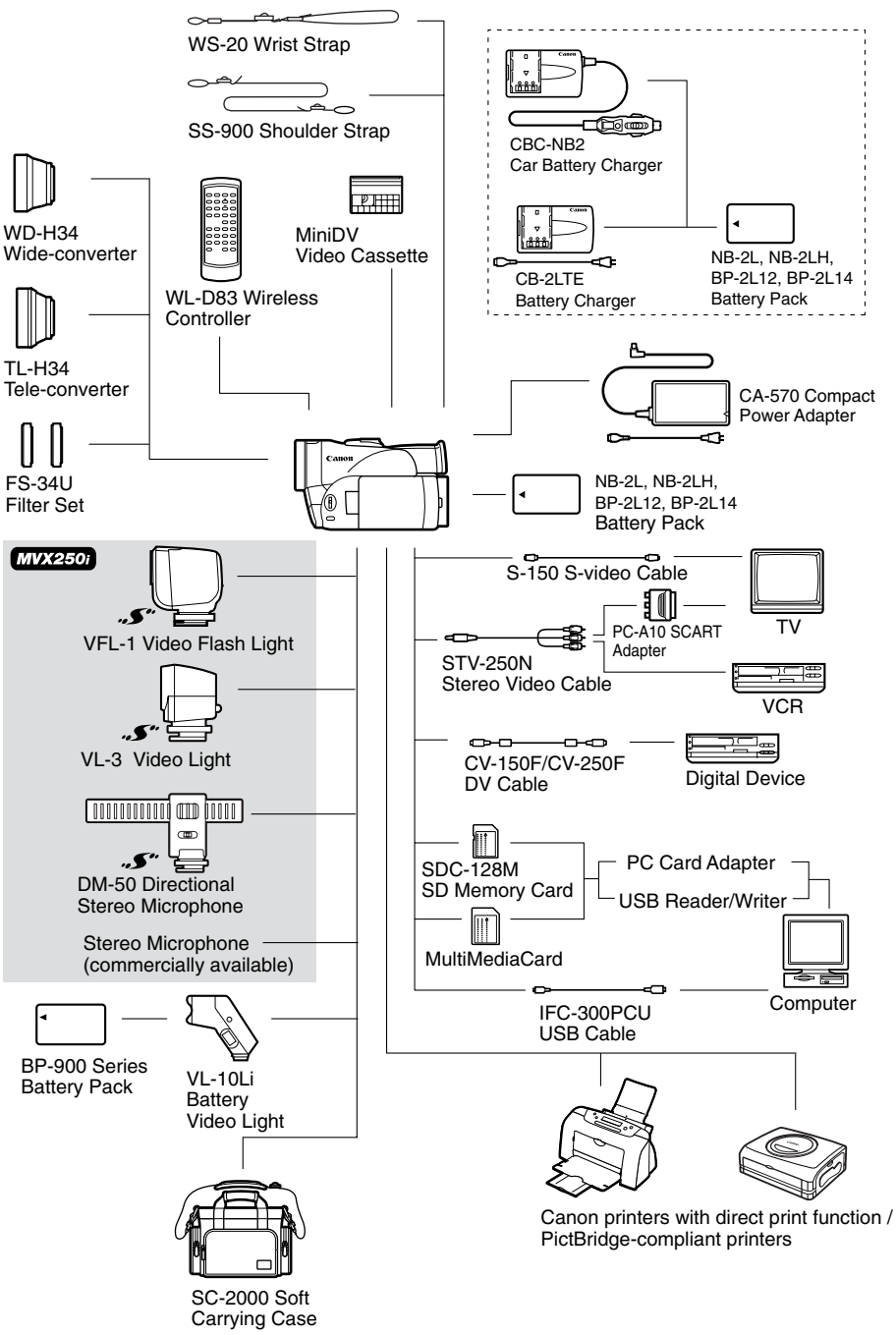
System Diagram (Availability differs from area to area)



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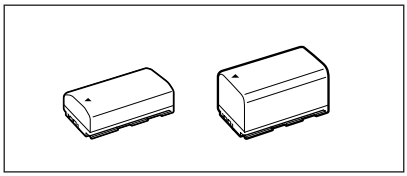
Optional Accessories

Use of genuine Canon accessories is recommended.
This product is designed to perform optimally when used with genuine Canon accessories. Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis.

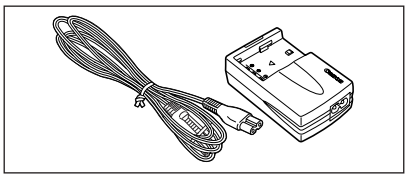
Battery Packs

When you need extra battery packs, select from the following: NB-2L, NB-2LH, BP-2L12, BP-2L14.



CB-2LTE Battery Charger

Use the battery charger for charging the battery packs.

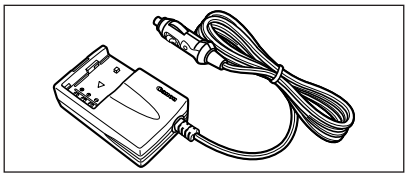


Battery Pack	Charging Time*
NB-2LH	90 min.
NB-2L	80 min.
BP-2L12	150 min.
BP-2L14	170 min.

* Charging time varies according to the charging condition.

CBC-NB2 Car Battery Charger

Use the car battery charger to charge battery packs on the move. The car battery cable plugs into your car's cigarette lighter and runs off a 12-24 V DC negative ground battery.



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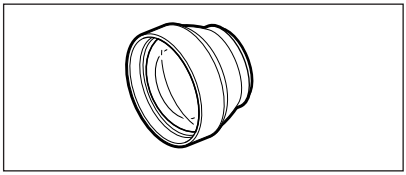
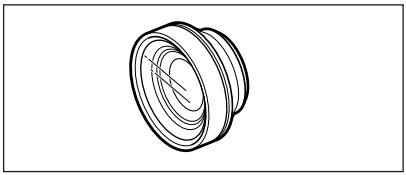
TL-H34 Tele-converter



This Tele-converter lens increases the focal length of the camcorder lens by a factor of 1.5.

- The image stabilizer is not as effective when the Tele-converter is attached.
- The minimum focusing distance with the TL-H34 is 2.5 m; 2.5 cm at maximum wide angle.
- When the Tele-converter is attached, a shadow may appear in the picture when you record with video light (MVX250i: or with assist lamp or flash).

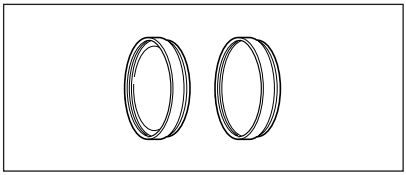
WD-H34 Wide-converter



This lens decreases focal length by a factor of 0.7, giving you a wide perspective for indoor shots or panoramic views.

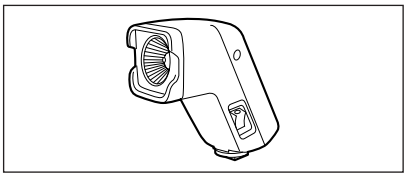
- When the Wide-converter is attached, a shadow may appear in the picture when you record with video light (MVX250i: or with assist lamp or flash).

FS-34U Filter Set



Neutral density and MC protector filters help you to control difficult lighting conditions.

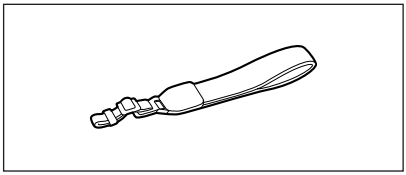
VL-10Li Battery Video Light



This compact yet powerful video light can be used for both indoor and outdoor shooting. It attaches to the camcorder's accessory shoe and is powered by BP-900 series battery packs.

- Approximate usage time: BP-915: 60 min., BP-930: 120 min., BP-945: 170 min.
- BP-900 series battery packs are charged with the CA-920 Compact Power Adapter or CH-910 Dual Battery Charger/Holder.

WS-20 Wrist Strap



Use this for extra additional protection for active shooting.

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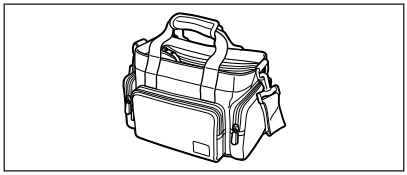
SC-2000 Soft Carrying Case

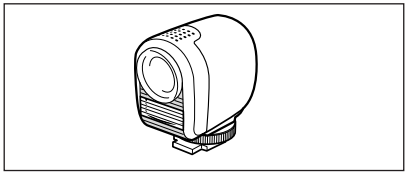
A handy camcorder bag with padded compartments and plenty of space for accessories.



MVX250i

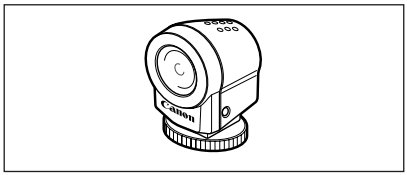
VFL-1 Video Flash Light

This video flash light allows you to record still images and movies even at night or in dark places. It attaches to the camcorder's advanced accessory shoe for cable-free operation.



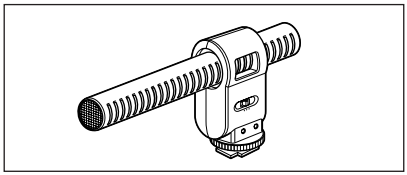
VL-3 Video Light

This video light enables you to record brightly in color even in dark places. It attaches to the camcorder's advanced accessory shoe for cable-free operation.



DM-50 Directional Stereo Microphone

This highly sensitive, super-directional microphone attaches to the camcorder's advanced accessory shoe. It can be used as directional microphone (monaural) or stereo microphone.



This mark identifies genuine Canon video accessories. When you use Canon video equipment, we recommend Canon-brand accessories or products bearing the same mark.

CANON GENUINE VIDEO ACCESSORY

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Specifications

MVX250i/MVX200i/MVX200

System

Video Recording System	2 rotary heads, helical scanning DV system (consumer digital VCR SD system), digital component recording
Audio Recording System	PCM digital sound: 16 bit (48 kHz/2 ch); 12 bit (32 kHz/4 ch)
Television System	CCIR standard (625 lines, 50 fields) PAL colour signal
Image Sensor	1/4.5-inch CCD, approx. 1,330,000 pixels Effective pixels: tape: approx. 860,000 pixels card: approx. 1,230,000 pixels
Tape Format	Videocassettes bearing the MiniDV mark
Tape Speed	SP: 18.83 mm/s, LP: 12.57 mm/s
Maximum Recording Time (80 min. cassette)	SP: 80 min., LP: 120 min.
Fast Forward/Rewind Time	Approx. 2 min. 20 sec. (with a 60 min. cassette)
LCD Screen	2.5-inch. TFT color, approx. 123,000 pixels
Viewfinder	0.33-inch. TFT color, approx. 113,000 pixels
Microphone	Stereo electret condenser microphone
Lens	MVX250i: f=3.5-63 mm, f/1.8-3.4, 18× power zoom MVX200i/MVX200: f=3.5-49 mm, f/1.8-3.1, 14× power zoom
Lens Configuration	10 elements in 8 groups
Filter Diameter	34 mm
AF System	TTL autofocus, manual focusing possible
Minimum Focusing Distance	1 m; 1 cm on maximum wide angle
White Balance	Auto white balance, pre-set white balance (indoor, outdoor) or custom white balance
Minimum Illumination	1.5 lx (using the Night mode)
Recommended Illumination	More than 100 lx
Image Stabilization	Electronic

Memory

Recording Media	SD Memory Card, MultiMediaCard
Number of Recording Pixels	Still image: 1280 × 960, 640 × 480 pixels Movie: 320 × 240, 160 × 120 pixels , 12.5 frames/sec.
File Format	Design rule for Camera File System (DCF), Exif 2.2* compliant, DPOF compliant

*This camcorder supports Exif 2.2 (also called "Exif Print"). Exif Print is a standard for enhancing the communication between camcorders and printers. By connecting to an Exif Print-compliant printer, the camcorder's image data at the time of shooting is used and optimised, yielding extremely high quality prints.

Image Recording Format	Still image: JPEG (compression: Super Fine, Fine, Normal) Movie: AVI (image data: Motion JPEG; audio data: WAVE (monaural))

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Input/Output Terminals (MVX200: Output only)

AV Terminal	ø3.5 mm minijack Video: 1 Vp-p/75 ohms unbalanced Audio output: –10 dBV (47 kohm load)/3 kohms or less Audio input*: –10 dBV/40 kohms or more
DV Terminal	Special 4-pin connector (IEEE 1394 compliant)
MIC Terminal (MVX250i)	ø3.5 mm stereo mini-jack –57 dBV (with 600 ohm mic)/5 kohms or more
Headphone Terminal	ø3.5 mm stereo mini-jack
USB Terminal	mini-B
S-video Terminal	1 Vp-p/75 ohms (Y signal), 0.3 Vp-p/75 ohms (C signal)

*MVX250i/MVX200i only.

Power/Others

Power supply (rated)	7.4 V DC
Power consumption (AF on)	2.6W (using viewfinder), 3.3W (using LCD screen)
Operating temperature	0 — 40 ßC
Dimensions (W × H × D)	74 × 78 × 130 mm excluding protrusions
Weight (camcorder body only)	500 g

CA-570 Compact Power Adapter

Power supply	100 – 240 V AC, 50/60 Hz
Power consumption	17W
Rated output	8.4 V DC, 1.5 A
Operating temperature	0 – 40 ˚C
Dimensions	52 × 90 × 29 mm
Weight	135 g

NB-2LH Battery Pack

Battery type	Rechargeable Lithium Ion Battery
Rated voltage	7.4 V DC
Operating temperature	0 – 40 ˚C
Battery capacity	720 mAh
Dimensions	33.3 × 16.2 × 45.2 mm
Weight	43 g

SDC-8M SD Memory Card

Capacity	8 MB
Interface	SD Memory Card standard
Operating temperature	0 – 40 ˚C
Dimensions	32 × 24 × 2.1 mm
Weight	2 g

Weight and dimensions are approximate. Errors and omissions excepted. Subject to change without notice.

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